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- NEWS 9 JAN 13 IPC 8 searching in IFIPAT, IFIUDB, and IFICDB
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- NEWS 11 JAN 17 Pre-1988 INPI data added to MARPAT
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- NEWS 13 JAN 30 Saved answer limit increased
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=> s ex-841
      2241 EX
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=> d all

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L1 ANSWER 1 OF 6 REGISTRY COPYRIGHT 2006 ACS on STN
RN 361181-83-1 REGISTRY
ED Entered STN: 09 Oct 2001
CN 2-Propenoic acid, 2-hydroxyethyl ester, polymer with 5-isocyanato-1-
(isocyanatomethyl)-1,3,3-trimethylcyclohexane and .alpha.-(oxiranylmethyl)-
.omega.-(oxiranylmethoxy)poly(oxy-1,2-ethanediyl) homopolymer 2-propenoate
(9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Cyclohexane, 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethyl-, polymer
with 2-hydroxyethyl 2-propenoate and .alpha.-(oxiranylmethyl)-.omega.-
(oxiranylmethoxy)poly(oxy-1,2-ethanediyl) homopolymer 2-propenoate (9CI)
CN Poly(oxy-1,2-ethanediyl), .alpha.-(oxiranylmethyl)-.omega.-
(oxiranylmethoxy)-, homopolymer, 2-propenoate, polymer with 2-hydroxyethyl
2-propenoate and 5-isocyanato-1-(isocyanatomethyl)-1,3,3-
trimethylcyclohexane (9CI)
OTHER NAMES:
CN ***Denacol EX 841 acrylate-2-hydroxyethyl acrylate-isophorone***
*** diisocyanate copolymer***
MF (C12 H18 N2 O2 . C5 H8 O3 . C3 H4 O2 . x ((C2 H4 O)n C6 H10 O3)x)x
CI PMS
PCT Epoxy resin, Polyacrylic, Polyether, Polyether
SR CA
LC STN Files: CA, CAPLUS
DT.CA CAPLUS document type: Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); PRP
(Properties); USES (Uses)
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Ring System Data

Elemental Analysis	Elemental Sequence	Size of the Rings	Ring System Formula	Ring Identifier	RID Occurrence
EA	ES	SZ	RF	RID	Count
=====+=====+=====+=====+=====+=====					

C6	C6	6	C6	46.150.1	1 in CM
C20	OC2	3	C20	1.30.1	1 2 in CM 5

CM 1

CRN 4098-71-9

CMF C12 H18 N2 O2

/ Structure 1 in file .gra /

CM 2

CRN 818-61-1

CMF C5 H8 O3

/ Structure 2 in file .gra /

CM 3

CRN 104220-34-0

CMF C3 H4 O2 . x ((C2 H4 O)n C6 H10 O3)x

CM 4

CRN 79-10-7

CMF C3 H4 O2

/ Structure 3 in file .gra /

CM 5

CRN 58782-18-6

CMF ((C2 H4 O)n C6 H10 O3)x

CCI PMS

CM 6

CRN 26403-72-5

CMF (C2 H4 O)n C6 H10 O3

CCI PMS

/ Structure 4 in file .gra /

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

AN 135:238616 CA

TI Manufacture of polyurethane granules for immobilization of enzymes and microorganisms

IN Yoshitake, Junya; Seko, Kenji

PA Kansai Paint Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM C12N011-08

CC 7-7 (Enzymes)

Section cross-reference(s): 16, 38

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	JP 2001252073	A2	20010918	JP 2000-70372	20000314
PRAI	JP 2000-70372		20000314		
AB	<p>The granules are manufd. by dropping aq. liq. compns. contg. (a) hydrophilic polyurethanes having .gtoreq.2 ethylenically unsatd. bonds (prepd. by reaction of polyisocyanates with addn. products from diepoxides and ethylenically unsatd. carboxylic acids), (b) polymn. initiators, and (c) water-sol. polysaccharides capable of forming gels with alkali metal ions or polyvalent metal ions on aq. media contg. alkali metal ions or polyvalent metal ions and photochem. or thermally polymg. the resulting granular gels for curing of the hydrophilic polyurethanes. Denacol EX 821 (diepoxide) was treated with acrylic acid in the presence of hydroquinone and then with isophorone diisocyanate to give a hydrophilic polyurethane, which was mixed with benzoin Bu ether, Na alginate, and H2O and UV-irradiated to give granules showing compressive strength 37 kg/cm2 and good adhesion of Zymomonas mobilis.</p>				
ST	<p>enzyme microorganism immobilization polyurethane granule manuf; epoxide acrylate polyurethane polysaccharide microorganism immobilization; alginate gel granule polyurethane immobilization enzyme microorganism</p>				
IT	<p>Polyurethanes, biological studies            RL: BUU (Biological use, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)            (acrylic-polyester-polyoxyalkylene-; manuf. of hydrophilic polyurethane granules contg. gel-forming polysaccharides for immobilization of enzymes and microorganisms)</p>				
IT	<p>Polyoxyalkylenes, biological studies            RL: BUU (Biological use, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)            (acrylic-polyester-polyurethane-; manuf. of hydrophilic polyurethane granules contg. gel-forming polysaccharides for immobilization of enzymes and microorganisms)</p>				
IT	<p>Polyesters, biological studies            RL: BUU (Biological use, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)            (acrylic-polyoxyalkylene-polyurethane-; manuf. of hydrophilic polyurethane granules contg. gel-forming polysaccharides for immobilization of enzymes and microorganisms)</p>				
IT	<p>Immobilization, biochemical            Microorganism            Zymomonas mobilis            (manuf. of hydrophilic polyurethane granules contg. gel-forming polysaccharides for immobilization of enzymes and microorganisms)</p>				
IT	<p>Polysaccharides, biological studies            RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)            (manuf. of hydrophilic polyurethane granules contg. gel-forming polysaccharides for immobilization of enzymes and microorganisms)</p>				
IT	<p>Enzymes, uses            RL: CAT (Catalyst use); USES (Uses)            (manuf. of hydrophilic polyurethane granules contg. gel-forming polysaccharides for immobilization of enzymes and microorganisms)</p>				
IT	<p>Polymerization catalysts            (photopolymn.; manuf. of hydrophilic polyurethane granules contg. gel-forming polysaccharides for immobilization of enzymes and microorganisms)</p>				
IT	<p>Polyurethanes, biological studies            RL: BUU (Biological use, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)            (polyoxyalkylene-, acrylic; manuf. of hydrophilic polyurethane granules contg. gel-forming polysaccharides for immobilization of enzymes and microorganisms)</p>				
IT	<p>Polymerization catalysts            (redox, thermal; manuf. of hydrophilic polyurethane granules contg. gel-forming polysaccharides for immobilization of enzymes and microorganisms)</p>				
IT	<p>9005-38-3, Sodium alginate            RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)            (manuf. of hydrophilic polyurethane granules contg. gel-forming polysaccharides for immobilization of enzymes and microorganisms)</p>				
IT	<p>361181-82-0P 361181-83-1P 361181-85-3P            RL: BUU (Biological use, unclassified); PRP (Properties); SPN (Synthetic</p>				

preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (manuf. of hydrophilic polyurethane granules contg. gel-forming  
 polysaccharides for immobilization of enzymes and microorganisms)  
 IT 7631-90-5, Sodium hydrogen sulfite 7727-54-0 22499-11-2, Benzoin butyl  
 ether  
 RL: CAT (Catalyst use); USES (Uses)  
 (polymn. initiator; manuf. of hydrophilic polyurethane granules contg.  
 gel-forming polysaccharides for immobilization of enzymes and  
 microorganisms)

=> d all 2-6

L1 ANSWER 2 OF 6 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 218956-63-9 REGISTRY  
 ED Entered STN: 04 Feb 1999  
 CN 2-Propenoic acid, 2-methyl-, polymer with 2-methyl-2-[(1-oxo-2-  
 propenyl)amino]-1-propanesulfonic acid and .alpha.-(oxiranylmethyl)-  
 .omega.-(oxiranylmethoxy)poly(oxy-1,2-ethanediyl), sodium salt (9CI) (CA  
 INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN 1-Propanesulfonic acid, 2-methyl-2-[(1-oxo-2-propenyl)amino]-, polymer  
 with 2-methyl-2-propenoic acid and .alpha.-(oxiranylmethyl)-.omega.-  
 (oxiranylmethoxy)poly(oxy-1,2-ethanediyl), sodium salt (9CI)  
 CN Poly(oxy-1,2-ethanediyl), .alpha.-(oxiranylmethyl)-.omega.-  
 (oxiranylmethoxy)-, polymer with 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-  
 propanesulfonic acid and 2-methyl-2-propenoic acid, sodium salt (9CI)  
 OTHER NAMES:  
 CN \*\*\*Denacol EX-841-methacrylic acid-2-acrylamido-2-methylpropanesulfonic\*\*\*  
 \*\*\* acid copolymer sodium salt\*\*\*  
 MF (C7 H13 N O4 S . C4 H6 O2 . (C2 H4 O)n C6 H10 O3)x . x Na  
 PCT Epoxy resin, Polyacrylic, Polyether  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL  
 DT.CA Caplus document type: Patent  
 RL.P Roles from patents: PREP (Preparation)

# Ring System Data

Elemental Analysis EA	Elemental Sequence ES	Size of the Rings SZ	Ring System Formula RF	Ring Identifier RID	RID Occurrence Count
C2O	OC2	3	C2O	1.30.1	2 in CM 2

CM 1

CRN 137323-93-4  
 CMF (C7 H13 N O4 S . C4 H6 O2 . (C2 H4 O)n C6 H10 O3)x  
 CCI PMS

CM 2

CRN 26403-72-5  
 CMF (C2 H4 O)n C6 H10 O3  
 CCI PMS

/ Structure 5 in file .gra /

CM 3

CRN 15214-89-8  
 CMF C7 H13 N O4 S

/ Structure 6 in file .gra /

CRN 79-41-4  
CMF C4 H6 O2

/ Structure 7 in file .gra /

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

AN 130:99461 CA  
TI Additives for hydraulic compositions, preparation of the additives, and  
cement compositions containing the additives  
IN Tahara, Hideyuki; Ito, Hiroshi; Mori, Yasuhiro; Mizushima, Makoto  
PA Nippon Shokubai Kagaku Kogyo Co, Ltd., Japan  
SO U.S., 47 pp., Cont. of U.S. Ser. No. 498,704, abandoned.  
CODEN: USXXAM  
DT Patent  
LA English  
IC ICM C08K003-00  
ICS C04B028-00; C08F220-00  
NCL 524005000  
CC 58-2 (Cement, Concrete, and Related Building Materials)  
Section cross-reference(s): 38

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5854318	A	19981229	US 1996-759435	19961205
	US 5476885	A	19951219	US 1991-668513	19910325
PRAI	JP 1989-190656		19890725		
	JP 1989-262242		19891009		
	JP 1989-297455		19891117		
	US 1991-668513		19910325		
	US 1995-498704		19950703		
	JP 1998-228313		19980905		
	JP 1989-228313		19890905		
	WO 1990-JP946		19900723		

AB The hydraulic compns. comprise a hydraulic material, water, and an additive comprising a crosslinked polymer in which, between main chains having water-sol. polymer structure of wt.-av. mol. wt. 500-100,000, a bond having as a structural unit .gtoreq.1 divalent groups having general formula  $R_1CO_2R_2$  [independently,  $R_1$ ,  $R_2$  is selected from  $CH_2$ ,  $CH(R)$  p-Ph,  $CR(R_1)$ , and  $CH_2CH(OH)$ , with the proviso that  $R_1$  is not required if  $R_2$  is  $CH_2CH(OH)$  (independently,  $R$ ,  $R_1 = C1-5-alkyl$ )], and in which the main chains comprise .gtoreq.1 members selected from  $CO_2M$ ,  $CO_2(R_5O)mSO_3M$ ,  $CONHR_7SO_3M$ ,  $(CH_2)nSO_3M$ , and p-Ph- $SO_3M$  ( $m = 0$  or integral no. of 1-50;  $n = 0$  or 1;  $M$  is .gtoreq.1 selected from H, mono-, di-, or trivalent metal,  $NH_4$ , and org. amine; independently,  $R_1$ ,  $R_6 = C2-4-alkylene$ ;  $R_7 = C1-5-alkylene$ ; with the proviso that when  $m$  .gtoreq.2, many of  $R_5O$  may be the same or different, and, when many of  $R_5O$  are different from one another, their arrangement may be regular or irregular), and in which the crosslinked polymer is capable of forming a water-sol. polymer by cleavage of the divalent group in an alk. medium. The additive are prepd. by obtaining a crosslinked polymer by a polymg. a monomer contg. .gtoreq.2 polymerizable double bonds and has as structural unit .gtoreq.1 divalent groups as above, with a monomer having one polymerizable double bond capable of copolymg. with the double bonds and capable to form a main chain structure capable of leading to a water-sol. polymer as above. Into a reactor, contg. N-stirred boiling water 164.2 were introduced a soln. contg. NK-ester M-9G (methoxypolyethylene glycol monomethacrylate; av. added ethylene oxide mole no. is 9) 62.9, methacrylic acid 16.7, and water 125.5, and, in addn., 2.5% aq.  $(NH_4)S_2O_8$  soln. 24.6 wt. parts over 4 h. Then, 6.1 wt. parts 2.5% aq.  $(NH_4)S_2O_8$  soln. were added over 1 h, and the mixt. was maintained at the b.p. for 1 h to complete the polymn. reaction, whereby a water-sol. polymer was obtained. To this polymer were added 3.2 wt. parts Denacol EX-721 (o-phthalic acid diglycidyl ester) and the mixt. maintained at the b.p. for 3 h, and neutralized with aq. NaOH to obtain a hydrophilic resin. A concrete mix contg. portland cement 320, water 173, fine aggregate (sand) 934, and coarse aggregate (crushed stone) 876 kg/m3,

and 0.12 wt.% hydrophilic resin as above had initial, and 60-, 90, and 120-min slump an air content 17.7 and 4.9, 19.3 and 5.2, 18.5 and 5.1, and 17.8 cm and 4.8%, and 28-day condensation strength 352 kg/cm<sup>2</sup> and beginning and ending setting time 5:25 and 7 h and 18 min, vs. 18.2 and 4.8, 16.8 and 4.9, 14.2 and 4.6, and 10.4 and 4.2, and 338 and 5:24 and 7:19, resp.

ST copolymer dispersant cement concrete; NK ester M 9G 23G methacrylic acid copolymer; hydroxyethyl methacrylate copolymer; crosslinking agent Denacol EX acrylic copolymer; acrylic copolymer sodium salt dispersant; ethylene oxide propylene oxide copolymer; Blenmer 70PEP 350B copolymer; methoxypolyethyleneglycol methacrylate copolymer; Denacol EX 202 611 701 721 810 841 861; acrylamidomethylpropanesulfonic acid copolymer; sulfoethylmethacrylate acrylic acid copolymer; sulfopropoxyethyleneglycol acrylate copolymer; Kayarad R 526 Manda HX 202 copolymer; formaldehyde naphthalenesulfonate dispersant; lignosulfonic acid sodium salt dispersant; dimethylaminoethyl methacrylate copolymer; polyethyleneoxide monoallyl ether copolymer; maleic acid copolymer Denacol 830; ethyleneimine ethylene copolymer; styrenesulfonate olefin copolymer; vinylsulfonic acid copolymer; diethylaminoethylmethacrylamide copolymer; DA 721 sulfoethylmethacrylate copolymer; DM 832 copolymer dispersant

IT Epoxy resins, preparation  
Polyoxyalkylenes, preparation  
RL: IMF (Industrial manufacture); PREP (Preparation)  
(acrylic, dispersants, manuf. of; for concrete, for slump loss prevention)

IT Polyoxyalkylenes, preparation  
Polyoxyalkylenes, preparation  
RL: IMF (Industrial manufacture); PREP (Preparation)  
(acrylic-epoxy, dispersants, manuf. of; for concrete, for slump loss prevention)

IT Epoxy resins, preparation  
Epoxy resins, preparation  
RL: IMF (Industrial manufacture); PREP (Preparation)  
(acrylic-polyoxyalkylene-, dispersants, manuf. of; for concrete, for slump loss prevention)

IT Polyoxyalkylenes, preparation  
RL: IMF (Industrial manufacture); PREP (Preparation)  
(allyl group-contg., polymers with Denacol EX 202 and maleic acid, sodium salts, dispersants, manuf. of; for concrete, for slump loss prevention)

IT Cement (construction material)  
(crosslinked acrylic copolymer dispersants for)

IT Concrete  
(crosslinked acrylic copolymer dispersants for cement in)

IT Dispersing agents  
Plasticizers  
(crosslinked acrylic copolymer dispersants; manuf. of, for concrete, for slump loss prevention)

IT Polyoxyalkylenes, preparation  
Polyoxyalkylenes, preparation  
RL: IMF (Industrial manufacture); PREP (Preparation)  
(epoxy, dispersants, manuf. of; for concrete, for slump loss prevention)

IT Epoxy resins, preparation  
Epoxy resins, preparation  
RL: IMF (Industrial manufacture); PREP (Preparation)  
(polyoxyalkylene-, dispersants, manuf. of; for concrete, for slump loss prevention)

IT 110-16-7DP, Maleic acid, polymers with Denacol EX-202 and polyalkylene glycol monoallyl ethers, sodium salts 2867-47-2DP, N,N-Dimethylaminoethyl methacrylate, quaternized, polymers with Denacol EX-721 and sodium acrylate 7446-81-3DP, Sodium acrylate, polymers with Denacol EX-721 and quaternized dimethylaminoethyl methacrylate 37099-12-0DP, Denacol EX-721, polymers with quaternized dimethylaminoethyl methacrylate and sodium acrylate 54590-60-2DP, Denacol EX-202, polymers with maleic acid and polyalkylene glycol monoallyl ethers, sodium salts 80833-82-5P, Acrylic acid-Denacol EX-841 copolymer sodium salt 136673-67-1P, Denacol EX-721-methacrylic acid-polyethyleneglycol polypropyleneglycol methacrylate copolymer 137112-16-4P, Acrylic acid-ethyleneimine-Denacol EX-202-sodium acrylate copolymer 137112-17-5P, Denacol EX-202-ethyleneimine-methacrylic acid copolymer 137112-19-7P, Denacol EX-721-ethyleneimine-maleic anhydride-styrene copolymer 137112-27-7P, Denacol EX-861-methacrylic acid-polyethyleneglycol

polypropyleneglycol methacrylate copolymer 137213-43-5P, Denacol  
EX-202-polyethyleneglycol monoallyl ether-sodium acrylate copolymer  
218956-35-5P 218956-37-7P 218956-39-9P 218956-41-3P 218956-43-5P  
218956-45-7P 218956-47-9P 218956-49-1P 218956-51-5P 218956-53-7P  
218956-55-9P 218956-57-1P 218956-59-3P 218956-61-7P 218956-63-9P  
218956-65-1P 218956-67-3P 218956-69-5P 218956-71-9P 218956-73-1P  
218956-75-3P 218956-77-5P 218956-78-6P 218956-79-7P 218956-82-2P  
218956-83-3P 218956-89-9P, Denacol EX-202-polyethyleneglycol monoallyl  
ether-sodium methacrylate copolymer 218956-91-3P, Denacol  
EX-830-polyethyleneglycol monoallyl ether-sodium methacrylate copolymer  
218956-97-9P 218957-02-9P 218957-05-2P 218957-08-5P 218957-11-0P  
218957-14-3P 218957-17-6P 218957-19-8P 218957-20-1P 218957-22-3P  
218957-24-5P 218957-26-7P 218957-28-9P 219316-95-7P 219320-31-7P  
219320-37-3P 219320-39-5P 219320-40-8P 219478-34-9P

RL: IMF (Industrial manufacture); PREP (Preparation)

(dispersant, manuf. of; for concrete, for slump loss prevention)

IT 8061-51-6, Sodium lignosulfonate 9008-63-3, Formaldehyde-sodium  
naphthalenesulfonate copolymer

RL: NUU (Other use, unclassified); USES (Uses)

(dispersants contg. crosslinked acrylic polymers and; for concrete, for  
slump loss prevention)

RE.CNT 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD

- (1) Anon; DE 1948755 1970 CAPLUS
- (2) Anon; FR 2377421 1978 CAPLUS
- (3) Anon; JP 54139929 1979 CAPLUS
- (4) Anon; JP 5452196 1979
- (5) Anon; FR 2525121 1983 CAPLUS
- (6) Anon; JP 60161365 1985 CAPLUS
- (7) Anon; JP 6016851 1985
- (8) Anon; EP 0240586 1986 CAPLUS
- (9) Anon; EP 0256144 1986 CAPLUS
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- (12) Anon; JP 62119147 1987 CAPLUS
- (13) Anon; JP 62216950 1987 CAPLUS
- (14) Anon; JP 62241855 1987 CAPLUS
- (15) Anon; JP 62292664 1987 CAPLUS
- (16) Anon; JP 6230648 1987
- (17) Anon; EP 0291590 A 1988 CAPLUS
- (18) Anon; JP 63162562 1988 CAPLUS
- (19) Anon; JP 63291840 1988 CAPLUS
- (20) Anon; JP 63305199 1988 CAPLUS
- (21) Anon; JP 63305200 1988 CAPLUS
- (22) Anon; EP 0377448 1990 CAPLUS
- (23) Anon; Polymer Preprints 1989, V38(3)
- (24) Boeckh; US 4980088 1990 CAPLUS
- (25) Dammann; US 4338239 1982 CAPLUS
- (26) Emmons; US 4120839 1978 CAPLUS
- (27) Herron; US 5183707 1993 CAPLUS
- (28) Hsu; US 4758641 1988 CAPLUS
- (29) Ito; US 4743301 1988 CAPLUS
- (30) Khoshdel; US 5159041 1992 CAPLUS
- (31) Patzschke; US 4857580 1989 CAPLUS
- (32) Pettit; US 4727111 1988 CAPLUS
- (33) Seelmann-Eggbert; US 5104951 1992 CAPLUS
- (34) Tahara; US 5298570 1994 CAPLUS
- (35) Tahara; US 5476885 1995 CAPLUS
- (36) Tonge; US 4764554 1988 CAPLUS
- (37) Tsubakimoto; US 4666983 1987 CAPLUS
- (38) Tsubakimoto; US 4870120 1989 CAPLUS
- (39) Vaughn; US 3687909 1972 CAPLUS
- (40) Yamaguchi; US 5064563 1991 CAPLUS
- (41) Yamaguchi; US 5135677 1992 CAPLUS

L1 ANSWER 3 OF 6 REGISTRY COPYRIGHT 2006 ACS on STN

RN 149011-48-3 REGISTRY

ED Entered STN: 30 Jul 1993

CN Chitosan, polymer with .alpha.-(oxiranylmethyl)-.omega.-  
(oxiranylmethoxy)poly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Poly(oxy-1,2-ethanediyl), .alpha.-(oxiranylmethyl)-.omega.-  
(oxiranylmethoxy)-, polymer with chitosan (9CI)

## OTHER NAMES:

CN \*\*\*Chitosan-Denacol EX 841 copolymer\*\*\*  
CN Chitosan-nonaethylene glycol diglycidyl ether copolymer  
DR 388603-21-2  
MF ((C2 H4 O)n C6 H10 O3 . Unspecified)x  
CI PMS  
PCT Epoxy resin, Manual component, Polyether, Polyether  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL  
DT.CA CAplus document type: Journal; Patent  
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES  
(Uses)  
RL.NP Roles from non-patents: PREP (Preparation); PROC (Process); PRP  
(Properties); USES (Uses)

## Ring System Data

Elemental Analysis EA	Elemental Sequence ES	Size of the Rings SZ	Ring System Formula RF	Ring Identifier RID	RID Occurrence Count
C2O	OC2	3	C2O	1.30.1	2 in CM 1

CM 1

CRN 26403-72-5  
CMF (C2 H4 O)n C6 H10 O3  
CCI PMS

/ Structure 8 in file .gra /

CM 2

CRN 9012-76-4  
CMF Unspecified  
CCI PMS, MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

8 REFERENCES IN FILE CA (1907 TO DATE)  
8 REFERENCES IN FILE CAPLUS (1907 TO DATE)

## REFERENCE 1

AN 136:406913 CA  
TI Method for restoring a damaged or degenerated intervertebral disk  
IN Desrosiers, Eric Andre; Chenite, Abdellatif; Berrada, Mohammed; Chaput, Cyril  
PA Bio Syntech Canada Inc., Can.  
SO PCT Int. Appl., 46 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
IC ICM A61L027-00  
CC 63-7 (Pharmaceuticals)  
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002040070	A2	20020523	WO 2001-CA1623	20011115
WO 2002040070	A3	20021003		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,  
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,  
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,  
PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA,  
UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,  
CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,  
BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

	CA 2429168	AA 20020523	CA 2001-2429168	20011115
	AU 2002021370	A5 20020527	AU 2002-21370	20011115
	US 2004091540	A1 20040513	US 2003-416947	20031215

PRAI US 2000-248226P 20001115  
US 2000-248568P 20001116  
WO 2001-CA1623 20011115

AB The present invention relates to a minimally-invasive method for restoring a damaged or degenerated intervertebral disk at an early stage. The method comprises the step of administering an injectable in situ setting formulation in the nucleus pulposus of the damaged or degenerated disk of a patient. The formulation once injected combines with nucleus matters and host cells, and becomes viscous or gels in situ within the annulus fibrosus of the disk for increasing the thickness and vol. of the damaged or degenerated disk. The formulation is retained within the disk for providing restoration of the damaged or degenerated disk. An acidic soln. made of a water/acetic acid was prepd. for all expts. The pH of this acidic soln. was adjusted to 4.0. High mol. wt. chitosan powder was added and dissolved in a vol. of the acidic soln. so as to produce chitosan solns. having chitosan proportions ranging from 0.5 to 2.0%. Glycerophosphate was added to the chitosan solns. and induced a pH increase. Chitosan and .beta.-glycerophosphate components individually influenced the pH increase within the aq. solns., and consequently influenced the sol to gel transition.

ST intervertebral disk degeneration chitosan

IT Prosthetic materials and Prosthetics  
(bioactive glass; method for restoring damaged or degenerated intervertebral disk)

IT Drug delivery systems  
(gels; method for restoring damaged or degenerated intervertebral disk)

IT Drug delivery systems  
(granules; method for restoring damaged or degenerated intervertebral disk)

IT Polyesters, biological studies  
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(hydroxycarboxylic acid-based; method for restoring damaged or degenerated intervertebral disk)

IT Drug delivery systems  
(injections; method for restoring damaged or degenerated intervertebral disk)

IT Spinal column, disease  
(intervertebral disk hernia; method for restoring damaged or degenerated intervertebral disk)

IT Spinal column  
(intervertebral disk; method for restoring damaged or degenerated intervertebral disk)

IT Monosaccharides  
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(ketoses, monophosphate esterss, salts; method for restoring damaged or degenerated intervertebral disk)

IT Polyesters, biological studies  
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(lactic acid-based; method for restoring damaged or degenerated intervertebral disk)

IT Analgesics  
Anti-inflammatory agents  
Chondrocyte  
Crosslinking  
Gelation  
Human  
Sol-gel transition  
Solvent effect  
Stem cell  
Viscosity  
(method for restoring damaged or degenerated intervertebral disk)

IT Collagens, biological studies  
Cytokines  
Fatty acids, biological studies  
Gelatins, biological studies  
Growth factors, animal  
Peptides, biological studies  
Polyanhydrides  
Polycarbonates, biological studies

Polyesters, biological studies  
 Polymers, biological studies  
 Polyoxyalkylenes, biological studies  
 Polysaccharides, biological studies  
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (method for restoring damaged or degenerated intervertebral disk)

IT Drug delivery systems  
 (microparticles; method for restoring damaged or degenerated intervertebral disk)

IT Drug delivery systems  
 (microspheres; method for restoring damaged or degenerated intervertebral disk)

IT Polyethers, biological studies  
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (ortho ester group-contg.; method for restoring damaged or degenerated intervertebral disk)

IT Polymers, biological studies  
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (water-sol.; method for restoring damaged or degenerated intervertebral disk)

IT 56-81-5, Glycerol, uses 64-17-5, Ethanol, uses 102-76-1, Triacetin  
 RL: NUU (Other use, unclassified); USES (Uses)  
 (method for restoring damaged or degenerated intervertebral disk)

IT 78274-32-5 92451-01-9 135649-01-3  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (method for restoring damaged or degenerated intervertebral disk)

IT 9004-74-4, MPEG  
 RL: RCT (Reactant); THU (Therapeutic use); BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)  
 (method for restoring damaged or degenerated intervertebral disk)

IT 126683-27-OP 135649-01-3DP, reaction product with chitosan  
 149011-48-3P  
 RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (method for restoring damaged or degenerated intervertebral disk)

IT 57-10-3, Palmitic acid, biological studies 57-11-4, Stearic acid, biological studies 112-80-1, Oleic acid, biological studies 373-49-9, Palmitoleic acid 471-34-1, Calcium carbonate, biological studies 544-63-8, Myristic acid, biological studies 693-72-1, Vaccenic acid 926-43-2D, salts 4220-97-7D, salts 9004-34-6, Cellulose, biological studies 9004-61-9, Hyaluronic acid 9004-62-0, Hydroxyethyl cellulose 9004-65-3, HPMC 9004-67-5, Methyl cellulose 9007-28-7, Chondroitin sulfate 9012-76-4, Chitosan 9012-76-4D, Chitosan, salts with glucose-1-glycerophosphate and fructose-6-glycerophosphate 10103-46-5, Calcium phosphate 17181-54-3D, salts 17989-41-2D, salts 25322-68-3, Polyethylene glycol 25680-11-9D, salts 26009-03-0, Poly(glycolic acid) 26023-30-3, Poly[oxy(1-methyl-2-oxo-1,2-ethanediyl)] 26100-51-6, Poly(lactic acid) 26124-68-5, Poly(glycolic acid) 27120-62-3D, salts 29010-57-9D, salts 29033-02-1D, salts 29691-42-7D, salts 29758-38-1D, salts 34346-01-5, Glycolic acid-lactic acid copolymer 34922-55-9D, salts 36119-15-0D, salts 37647-43-1D, salts 39698-83-4D, salts 40529-38-2D, salts 47341-71-9D, salts 64913-51-5D, salts 73714-92-8D, salts 99632-97-0D, salts 105182-27-2D, salts 136291-32-2D, salts 136291-38-8D, salts 136332-80-4D, salts 136332-86-0D, salts 220715-54-8D, salts 220715-55-9D, salts 220715-56-0D, salts 220715-57-1D, salts 220715-60-6D, salts 220715-61-7D, salts 220715-62-8D, salts 220715-63-9D, salts 220715-65-1D, salts 220715-66-2D, salts 428861-86-3 428861-87-4 429660-94-6D, salts 429660-95-7D, salts 429660-96-8D, salts 429660-97-9D, salts 429660-98-0D, salts 429660-99-1D, salts  
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (method for restoring damaged or degenerated intervertebral disk)

# REFERENCE 2

AN 136:104099 CA  
 TI Modification of chitin-chitosan-cellulose compositions with crosslinking agents  
 AU Rogovina, S. Z.; Akopova, T. A.; Vikhoreva, G. A.; Zelenetskii, S. N.; Gorbacheva, I. N.; Suslova, N. V.  
 CS Inst. Khim. Fiz. im. N. N. Semenova, Ross. Akad. Nauk, Moscow, 117977, Russia

SO Vysokomolekulyarnye Soedineniya, Seriya A i Seriya B (2001), 43(9),  
1582-1585  
CODEN: VSSBEE; ISSN: 1023-3091

PB MAIK Nauka/Interperiodica Publishing

DT Journal

LA Russian

CC 44-5 (Industrial Carbohydrates)

AB Solid-phase deacetylation of chitin in the presence of cellulose and crosslinking agent, diglycidyl ether of oligo(ethylene oxide) under shear deformation was studied. Cellulose-chitosan compn. insol. in alkali and acidic aq. solns. were obtained. The resulting products were investigated by potentiometric titrn., elemental anal., and IR spectroscopy. The presence of cellulose in the reaction mixt. favors an increase in both the system homogeneity and the degree of chitin deacetylation.

ST solid state deacetylation chitin chitosan crosslinked cellulose; polyoxyethylene diglycidyl ether crosslinked chitosan cellulose compn

IT Deacetylation  
(solid-phase; modification of chitin-chitosan-cellulose compns. with crosslinking agents)

IT 149011-48-3P, Chitosan-nonaethylene glycol diglycidyl ether copolymer  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(crosslinking agent; modification of chitin-chitosan-cellulose compns. with crosslinking agents)

IT 9004-34-6, Cellulose, properties  
RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses)  
(modification of chitin-chitosan-cellulose compns. with crosslinking agents)

IT 1398-61-4DP, Chitin, deacetylated  
RL: POF (Polymer in formulation); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)  
(modification of chitin-chitosan-cellulose compns. with crosslinking agents)

# REFERENCE 3

AN 135:372445 CA

TI Solid state production of cellulose-chitosan blends and their modification with the diglycidyl ether of oligo(ethylene oxide)

AU Rogovina, S. Z.; Akopova, T. A.; Vikhoreva, G. A.; Gorbacheva, I. N.

CS Semenov Institute of Chemical Physics, Russian Academy of Sciences, Moscow, 117977, Russia

SO Polymer Degradation and Stability (2001), 73(3), 557-560  
CODEN: PDSTDW; ISSN: 0141-3910

PB Elsevier Science Ltd.

DT Journal

LA English

CC 37-6 (Plastics Manufacture and Processing)  
Section cross-reference(s): 43, 44

AB Blends of naturally occurring polysaccharides, i.e., cellulose and chitosan, were obtained in the solid phase under high pressure and shear deformation. The IR-spectra indicate that the system of hydrogen bonds between hydroxyl and amino groups of the polysaccharides changed, indicating that blending occurs at the mol. level. A mechanism is proposed for formation of cellulose-chitosan blends in the presence of diglycidyl ether of oligo(ethylene oxide) diepoxide as crosslinking agent. The crosslinking agent reacts predominantly at the amino groups of chitosan with formation of a three-dimensional network, cellulose macromols. being located within and partially bound with this network by the crosslinks. The formation of the network structures results in insoly. of cellulose-chitosan compns. in acidic and alk. aq. media.

ST cellulose chitosan blend hydrogen bond network structure; diepoxide crosslinker cellulose chitosan blend network soly

IT Crosslinking  
Hydrogen bond  
Mixing  
Polymer networks  
Solubility  
(prepn. of hydrogen-bonded cellulose-chitosan blends and crosslinking with PEO-diglycidyl ether to obtain 3D insol. networks)

IT Polymer blends  
RL: PRP (Properties)  
(prepn. of hydrogen-bonded cellulose-chitosan blends and crosslinking

with PEO-diglycidyl ether to obtain 3D insol. networks)  
IT 9004-34-6, Cellulose, properties 9012-76-4, Chitosan  
RL: PEP (Physical, engineering or chemical process); PRP (Properties); RCT (Reactant); PROC (Process); RACT (Reactant or reagent)  
(prepn. of hydrogen-bonded cellulose-chitosan blends and crosslinking with PEO-diglycidyl ether to obtain 3D insol. networks)  
IT 149011-48-3P 192131-37-6P 357334-03-3P  
RL: PNU (Preparation, unclassified); PRP (Properties); PREP (Preparation)  
(prepn. of hydrogen-bonded cellulose-chitosan blends and crosslinking with PEO-diglycidyl ether to obtain 3D insol. networks)  
RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
(1) Bikales, N; Cellulose and cellulose derivatives 1971  
(2) Nakanishi, K; Infrared absorption spectroscopy 1962  
(3) Rogovina, S; Polym Sci Ser A 1994, V36(4), P487  
(4) Zhbankov, R; Fizika tsellyulozy' ee proiyodnykh 1983

#### REFERENCE 4

AN 135:197038 CA  
TI Study of cellulose-chitosan composites. Solid-phase modification, rheology, films  
AU Vikhoreva, G. A.; Kil'deeva, N. R.; Gorbacheva, I. N.; Shablykova, E. A.; Rogovina, S. Z.; Akopova, T. A.  
CS Moscow State Textile University, Russia  
SO Fibre Chemistry (Translation of Khimicheskie Volokna) (2000), 32(6), 402-406  
CODEN: FICYAP; ISSN: 0015-0541  
PB Consultants Bureau  
DT Journal  
LA English  
CC 43-3 (Cellulose, Lignin, Paper, and Other Wood Products)  
Section cross-reference(s): 38, 44  
AB A method is proposed for processing of exptl. data which would allow adequately describing the rheol. behavior of systems whose disperse phase contains swelling particles of anisometric shape. Polysaccharide films with a high degree of swelling were obtained from dispersions of powd. cellulose in chitosan solns. The high sorption capacity of the films, good adhesion to skin, lack of toxicity, and possibility of immobilizing drugs in them allow considering these films as promising materials for healing wounds and burns.  
ST polyethylene oxide diglycidyl ether crosslinking cellulose chitosan swelling sorption  
IT Sorption  
(Cu<sup>2+</sup>; solid-phase modification, rheol., films of cellulose-chitosan composites)  
IT Size distributions  
(cellulose particles; solid-phase modification, rheol., films of cellulose-chitosan composites)  
IT Diffusion activation energy  
Elongation, mechanical  
Shear stress  
Swelling, physical  
Tensile strength  
Viscosity  
(solid-phase modification, rheol., films of cellulose-chitosan composites)  
IT Polysaccharides, processes  
RL: PEP (Physical, engineering or chemical process); PRP (Properties); SPN (Synthetic preparation); PREP (Preparation); PROC (Process)  
(solid-phase modification, rheol., films of cellulose-chitosan composites)  
IT 149011-48-3P 192131-37-6P 357334-03-3P  
RL: PEP (Physical, engineering or chemical process); PRP (Properties); SPN (Synthetic preparation); PREP (Preparation); PROC (Process)  
(solid-phase modification, rheol., films of cellulose-chitosan composites)  
RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD  
(1) Akopova, T; Vysokomolek Soedin 1995, V37B(10), P1797  
(2) Kuleznev, V; Polymer Blends [in Russian] 1980, P197  
(3) Lipatov, Y; Physicochemical Principles of Filling of Polymers [in Russian] 1991  
(4) Mills, N; J Appl Polym Sci 1975, V15, P2791

- (5) Rogovina, S; J Appl Polym Sci 1998, V70, P927 CAPLUS  
 (6) Sagalae, G; Fillers for Polymeric Materials [in Russian] 1969, P18  
 (7) Vikhoreva, G; Vysokomolek Soedin 1996, V38B(10), P1731

# REFERENCE 5

AN 124:263322 CA  
 TI Finishing polynosic rayon fabrics for antibacterial odor-absorbing prints with improved print brightness on the nonprinted side  
 IN Yabe, Hiroaki; Yoshikawa, Kingo; Okabayashi, Kenichi; Okuda, Isamu  
 PA Fuji Spinning Co Ltd, Japan  
 SO Jpn. Kokai Tokkyo Koho, 24 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 IC ICM D06M015-55  
 ICS D06M015-03  
 CC 40-6 (Textiles and Fibers)  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 08027675	A2	19960130	JP 1994-183860	19940713
	JP 2800094	B2	19980921		
PRAI	JP 1994-183860		19940713		

AB In the title process, fabrics of chitosan-coated polynosic rayon or chitosan-contg. polynosic rayon are treated with epoxy compds. as alkylating agents or crosslinking agents. The prints are useful for handkerchiefs and scurfs. A woven fabric polynosic rayon was immersed in an aq. soln. contg. chitosan acetate, squeezed, dried, treated with a coagulating soln., washed, dried, treated with an aq. soln. contg. Denacol EX -841 for 30 s, squeezed to pickup 80%, heat treated 2 min under steam at 100.degree., printed, heat treated under steam for 10 min at 102-103.degree., washed, and dried to give a printed handkerchief exhibiting good print brightness on the back side and good antibacterial and odor absorption properties.

ST polynosic rayon print antibacterial; handkerchief antibacterial polynosic rayon print; scurf antibacterial polynosic rayon print; chitosan antibacterial finish polynosic rayon print; odor absorption polynosic rayon print; epoxy resin finish antibacterial rayon print

IT Odor and Odorous substances  
 (absorbents, chitosan; for finishing polynosic rayon fabrics for antibacterial odor-absorbing prints)

IT Bactericides, Disinfectants, and Antiseptics  
 (chitosan; for finishing polynosic rayon fabrics for antibacterial odor-absorbing prints)

IT Rayon, uses  
 RL: PEP (Physical, engineering or chemical process); PRP (Properties); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
 (fabrics; finishing for antibacterial prints with improved print brightness on the nonprinted side)

IT Epoxy resins, uses  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (finishing agents; for finishing polynosic rayon fabrics for antibacterial prints with improved print brightness on the nonprinted side)

IT Wearing apparel  
 (handkerchiefs or scurfs; finishing polynosic rayon fabrics for antibacterial odor-absorbing prints with improved print brightness on the nonprinted side)

IT Textile printing  
 (on polynosic rayon fabrics; finishing for antibacterial prints with improved print brightness on the nonprinted side for)

IT 149011-48-3 175342-78-6 175414-54-7  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (finish; for finishing polynosic rayon fabrics for antibacterial prints with improved print brightness on the nonprinted side)

# REFERENCE 6

AN 122:83560 CA  
 TI Breakthrough curve for adsorption of acid dye on crosslinked chitosan fiber

AU Yoshida, Hiroyuki; Okamoto, Akihide; Yamasaki, Haruo; Kataoka, Takeshi  
 CS Dep. Chem. Eng., Univ. Osaka Prefect., Sakai, 593, Japan  
 SO Studies in Surface Science and Catalysis (1993), 80(Fundamentals of  
 Adsorption), 767-74  
 CODEN: SSCTDM; ISSN: 0167-2991  
 DT Journal  
 LA English  
 CC 40-6 (Textiles and Fibers)  
 AB The recovery of univalent anionic dye by adsorption on crosslinked  
 chitosan fiber, which was developed, appeared feasible tech. Equil.  
 isotherms for adsorption of Acid Orange II (acid dye) on crosslinked  
 chitosan fibers were correlated by B.E.T. equation for finite no. of  
 layers at pH 6.9 and were almost rectangular at pH .ltoreq. 4. The satn.  
 capacities of the dye adsorbed on ChF-A and ChF-B at pH .ltoreq. 4 were 2  
 and 1.6 times larger than activated carbon fiber, resp. When pH .ltoreq.  
 4, the breakthrough curve was independent of pH of the soln. The exptl.  
 breakthrough curves for pH .ltoreq. 4 were well correlated by the anal.  
 soln. for rectangular isotherm system.  
 ST crosslinked chitosan fiber dye removal; acid dye removal textile  
 wastewater  
 IT Synthetic fibers  
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material  
 use); PREP (Preparation); USES (Uses)  
 (chitosan-Denacol EX841; removal of acid dyes from textile industry  
 wastewaters by adsorption on crosslinked chitosan fibers)  
 IT Adsorption  
 Wastewater  
 (removal of acid dyes from textile industry wastewaters by adsorption  
 on crosslinked chitosan fibers)  
 IT Dyes  
 (acid, removal of acid dyes from textile industry wastewaters by  
 adsorption on crosslinked chitosan fibers)  
 IT 149011-48-3P, Chitosan-Denacol EX 841 copolymer  
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material  
 use); PREP (Preparation); USES (Uses)  
 (removal of acid dyes from textile industry wastewaters by adsorption  
 on crosslinked chitosan fibers)  
 IT 633-96-5, Acid orange II  
 RL: REM (Removal or disposal); PROC (Process)  
 (removal of acid dyes from textile industry wastewaters by adsorption  
 on crosslinked chitosan fibers)

REFERENCE 7

AN 121:181545 CA  
 TI Chitosan, poly(vinyl alcohol) or alginic acid-based semipermeable  
 membranes and their manufacture  
 IN Mizusawa, Atsushi  
 PA Daikin Ind Ltd, Japan  
 SO Jpn. Kokai Tokkyo Koho, 8 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 IC ICM G01N027-40  
 ICS C08G059-40; C08L005-08; C08L029-04; C12Q001-00; G01N027-327  
 CC 38-3 (Plastics Fabrication and Uses)  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 06102229	A2	19940415	JP 1992-275453	19920918
PRAI	JP 1992-275453		19920918		
AB	The membranes, with good strength, are prepd. by crosslinking polyethylene glycol diglycidyl ether (I) with polyvinyl alc., alginic acid, and/or chitosan. A membrane was prepd. by heating a chitosan soln. with I and casting.				
ST	polyethylene glycol glycidyl ether copolymer membrane; chitosan copolymer semipermeable membrane; vinyl alc copolymer semipermeable membrane; alginic acid copolymer semipermeable membrane				
IT	Molding of plastics and rubbers (casting, of polyethylene glycol glycidyl ether copolymer, for semipermeable membranes)				
IT	Membranes				

(semipermeable, polyethylene glycol glycidyl ether copolymer, prepn. of)

IT 557-75-5DP, Vinyl alcohol, crosslinked 26403-72-5DP, Polyethylene glycol diglycidyl ether, crosslinked 149011-48-3P 157723-27-8P  
RL: PREP (Preparation)  
(semipermeable membranes, prepn. of)

REFERENCE 8

AN 119:74584 CA  
TI Adsorption of acid dye on crosslinked chitosan fibers: equilibria  
AU Yoshida, Hiroyuki; Okamoto, Akihide; Kataoka, Takeshi  
CS Dep. Chem. Eng., Univ. Osaka Prefect., Sakai, 593, Japan  
SO Chemical Engineering Science (1993), 48(12), 2267-72  
CODEN: CESCAC; ISSN: 0009-2509  
DT Journal  
LA English  
CC 41-3 (Dyes, Organic Pigments, Fluorescent Brighteners, and Photographic Sensitizers)  
Section cross-reference(s): 44  
AB Two different Denacol EX841-crosslinked chitosan fibers (A and B) were developed for use as adsorbents for the recovery of acid dyes. The concn. of NH<sub>2</sub> groups in the adsorbent phase was 3-5 times larger than that of com. weak-base ion exchangers and decreased with increasing degree of crosslinking. For pH = 6.9, the exptl. equil. isotherms for adsorption of Acid Orange II were correlated by the BET equation for a finite no. of layers. The max. amts. of the dye adsorbed on noncrosslinked chitosan fiber, A, and B were about 10, 6, and 3.2 mol/kg, resp., for initial dye liq.-phase concn. (C<sub>0</sub>) 1 mol/m<sup>3</sup> and 298 K. These values were much larger than the corresponding values for activated carbon fiber. The amt. of the dye adsorbed increased with increasing C<sub>0</sub> and decreased with increasing temp. The presence of NaCl also increased the amt. of the dye adsorbed. For pH .ltoreq.4, the selectivity of adsorption of the dye was extremely high and the isotherm was almost rectangular. The satn. capacities of the dye on A and B at pH .ltoreq.4 were 4.8 and 3.5 mol/kg, resp., almost the same as the concns. of the NH<sub>2</sub> groups in the solid phase of A and B, resp.  
ST acid dye chitosan adsorption  
IT Adsorption  
(of acid azo dyes, on chitosan fibers)  
IT Fibrous materials  
(adsorbents, crosslinked chitosan, for acid azo dyes)  
IT Synthetic fibers, polymeric  
RL: USES (Uses)  
(chitosan, adsorbents, for acid azo dyes)  
IT Adsorbents  
(fibrous, crosslinked chitosan, for acid azo dyes)  
IT 633-96-5, Acid Orange II  
RL: PEP (Physical, engineering or chemical process); PROC (Process)  
(adsorption of, on crosslinked chitosan fibers)  
IT 149011-48-3  
RL: USES (Uses)  
(fiber, acid azo dye adsorption on)

L1 ANSWER 4 OF 6 REGISTRY COPYRIGHT 2006 ACS on STN  
RN 123011-96-1 REGISTRY  
ED Entered STN: 06 Oct 1989  
CN Formaldehyde, polymer with .alpha.-(oxiranylmethyl)-.omega.-(oxiranylmethoxy)poly(oxy-1,2-ethanediyl) and phenol (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Phenol, polymer with formaldehyde and .alpha.-(oxiranylmethyl)-.omega.-(oxiranylmethoxy)poly(oxy-1,2-ethanediyl) (9CI)  
CN Poly(oxy-1,2-ethanediyl), .alpha.-(oxiranylmethyl)-.omega.-(oxiranylmethoxy)-, polymer with formaldehyde and phenol (9CI)

OTHER NAMES:

CN \*\*\*Denacol EX 841-formaldehyde-phenol copolymer\*\*\*  
MF (C<sub>6</sub> H<sub>6</sub> O . (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>6</sub> H<sub>10</sub> O<sub>3</sub> . C H<sub>2</sub> O)<sub>x</sub>  
CI PMS  
PCT Epoxy resin, Phenolic resin, Polyether  
SR CA  
LC STN Files: CA, CAPLUS  
DT.CA Caplus document type: Patent

RL.P Roles from patents: PREP (Preparation); PRP (Properties); USES (Uses)

Ring System Data

Elemental Analysis EA	Elemental Sequence ES	Size of the Rings SZ	Ring System Formula RF	Ring Identifier RID	RID Occurrence Count
=====	=====	=====	=====	=====	=====
C6	C6	6	C6	46.150.18	1 in CM
					2
C20	OC2	3	C20	1.30.1	2 in CM
					1

CM 1

CRN 26403-72-5

CMF (C2 H4 O)n C6 H10 O3

CCI PMS

/ Structure 9 in file .gra /

CM 2

CRN 108-95-2

CMF C6 H6 O

/ Structure 10 in file .gra /

CM 3

CRN 50-00-0

CMF C H2 O

/ Structure 11 in file .gra /

3 REFERENCES IN FILE CA (1907 TO DATE)

3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

AN 142:377473 CA

TI Modified phenolic resins and their manufacture for shell molds

IN Saneto, Toru

PA Sumitomo Bakelite Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 14 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM B22C001-22

ICS C08G008-28

CC 56-2 (Nonferrous Metals and Alloys)

Section cross-reference(s): 38

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	JP 2005095931	A2	20050414	JP 2003-332784	20030925
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PRAI	JP 2003-332784	20030925
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AB The resins are manufd. by copolymg. novolak phenolic resins having wt.-av. mol. wt. (Mw) 800-5000 with aliph. epoxy resins at reaction ratio 1-30 mol% so that epoxy groups of the epoxy resins are addn.-reacted to a part of phenolic OH groups of the phenolic resins. The molds made of resin-coated sand using the above resins have high cold strength and improved disintegration after casting metals.

ST epoxy resin modified phenolic resin shell mold; resin coated sand shell mold metal casting; aliph epoxy resin modified novolak phenolic resin manuf

IT Phenolic resins, preparation  
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (epoxy, hexamethylenetetramine-crosslinked, mold; aliph. epoxy resin-modified novolak phenolic resins and their manuf. for shell molds)

IT Phenolic resins, preparation  
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (epoxy; aliph. epoxy resin-modified novolak phenolic resins and their manuf. for shell molds)

IT Epoxy resins, preparation  
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (phenolic, hexamethylenetetramine-crosslinked, mold; aliph. epoxy resin-modified novolak phenolic resins and their manuf. for shell molds)

IT Epoxy resins, preparation  
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (phenolic; aliph. epoxy resin-modified novolak phenolic resins and their manuf. for shell molds)

IT Molding sand  
 (resin-coated; aliph. epoxy resin-modified novolak phenolic resins and their manuf. for shell molds)

IT Molds (forms)  
 (shell; aliph. epoxy resin-modified novolak phenolic resins and their manuf. for shell molds)

IT 92717-76-5P, Denacol EX 211-formaldehyde-phenol copolymer 92717-77-6P, Denacol EX 212-formaldehyde-phenol copolymer 123011-96-1P, Denacol EX 841-formaldehyde-phenol copolymer 194866-40-5P, Denacol EX 810-formaldehyde-phenol copolymer  
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (aliph. epoxy resin-modified novolak phenolic resins and their manuf. for shell molds)

IT 849660-69-1P 849660-70-4P 849660-71-5P 849660-72-6P  
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (mold; aliph. epoxy resin-modified novolak phenolic resins and their manuf. for shell molds)

REFERENCE 2

AN 127:266524 CA  
 TI Binder compositions for carbon dioxide-hardening molds with high strength  
 IN Yoshida, Akira; Mizuno, Wataru  
 PA Kao Corp., Japan  
 SO Jpn. Kokai Tokkyo Koho, 15 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 IC ICM B22C009-12  
 ICS B22C001-22  
 CC 56-2 (Nonferrous Metals and Alloys)  
 Section cross-reference(s): 38

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	JP 09206885	A2	19970812	JP 1996-15237	19960131
	JP 3453469	B2	20031006		
	CN 1171991	A	19980204	CN 1997-110004	19970131
	CN 1108207	B	20030514		
PRAI	JP 1996-15237		19960131		
AB	Title binder compns. comprise (A) epoxy compds. 0.1-60, (B) alk. aq. solns. of phenolic resins 15-99.7, (C) crosslinking accelerators 0.1-20, and (D) silane coupling agents 0.1-10 parts in 100 parts of total. Resin kits contg. the binder compns. for CO2-hardened molds, are also claimed. Molds are manufd. by kneading 100 parts refractory particles and 0.1-10 parts the binder compns. or the resin kits, followed by hardening of the kneaded materials with 0.1-30 parts CO2 in a mold.				
ST	carbon dioxide hardening mold binder strength; epoxy phenolic resin binder				

mold; borax crosslinking accelerator epoxy phenolic resin; silane coupler  
 epoxy phenolic resin binder

IT Binders  
 Crosslinking catalysts  
 Molds (forms)  
 (epoxy phenolic resin binder compns. contg. boron compd. crosslinking  
 accelerators for carbon dioxide-hardening molds)

IT Sand  
 RL: PRP (Properties); TEM (Technical or engineered material use); USES  
 (Uses)  
 (hardening of; epoxy phenolic resin binder compns. contg. boron compd.  
 crosslinking accelerators for carbon dioxide-hardening molds)

IT Phenolic resins, preparation  
 RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP  
 (Properties); TEM (Technical or engineered material use); PREP  
 (Preparation); USES (Uses)  
 (polyglycidyl ethers, polymers; epoxy phenolic resin binder compns.  
 contg. boron compd. crosslinking accelerators for carbon  
 dioxide-hardening molds)

IT Phenolic resins, preparation  
 RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP  
 (Properties); TEM (Technical or engineered material use); PREP  
 (Preparation); USES (Uses)  
 (polymers with phenolic resin polyglycidyl ethers; epoxy phenolic resin  
 binder compns. contg. boron compd. crosslinking accelerators for carbon  
 dioxide-hardening molds)

IT Epoxides  
 RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP  
 (Properties); TEM (Technical or engineered material use); PREP  
 (Preparation); USES (Uses)  
 (polymers with phenolic resins; epoxy phenolic resin binder compns.  
 contg. boron compd. crosslinking accelerators for carbon  
 dioxide-hardening molds)

IT Cement (construction material)  
 (portland, binders contg.; epoxy phenolic resin binder compns. contg.  
 boron compd. crosslinking accelerators for carbon dioxide-hardening  
 molds)

IT 128801-08-1P  
 RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP  
 (Properties); TEM (Technical or engineered material use); PREP  
 (Preparation); USES (Uses)  
 (binders contg.; epoxy phenolic resin binder compns. contg. boron  
 compd. crosslinking accelerators for carbon dioxide-hardening molds)

IT 139-12-8, Aluminum acetate 373-02-4, Nickel acetate 555-31-7,  
 Triisopropoxyaluminum 688-37-9, Aluminum oleate 1305-62-0, Calcium  
 hydroxide, uses 1309-42-8, Magnesium hydroxide 1344-28-1, Alumina,  
 uses 4180-12-5, Copper acetate 7646-85-7, Zinc chloride, uses  
 11138-49-1, Sodium aluminate 12604-53-4, Ferromanganese 12673-69-7,  
 Potassium titanate 14025-21-9, Disodium zinc EDTA 15086-27-8, Aluminum  
 phenolate 18917-91-4, Aluminum lactate 21645-51-2, Aluminum hydroxide,  
 uses 39322-04-8, Chromium potassium oxide 60328-44-1, Sodium zirconium  
 oxide 63465-09-8, Vanadium acetate  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (binders contg.; epoxy phenolic resin binder compns. contg. boron  
 compd. crosslinking accelerators for carbon dioxide-hardening molds)

IT 1303-96-4, Borax  
 RL: CAT (Catalyst use); USES (Uses)  
 (crosslinking accelerators; epoxy phenolic resin binder compns. contg.  
 boron compd. crosslinking accelerators for carbon dioxide-hardening  
 molds)

IT 9003-35-4DP, Formaldehyde-phenol copolymer, polymers with phenolic resin  
 polyglycidyl ethers 25085-75-0DP, Bisphenol A-formaldehyde copolymer,  
 polymers with phenolic resin polyglycidyl ethers 25134-86-5P 30622-72-  
 1DP, Bisphenol A-formaldehyde-phenol copolymer, polymers with phenolic  
 resin polyglycidyl ethers 52736-36-4P, Bisphenol A diglycidyl  
 ether-formaldehyde-phenol copolymer 55340-95-9P 69453-32-3P  
 71212-53-8P 107087-88-7P 123011-96-1P 125395-70-2P 194866-38-1P  
 194866-39-2P 194866-40-5P 194866-41-6P 194866-43-8P 194866-46-1P  
 194866-48-3P 194866-50-7P 194866-53-0P 194866-56-3P 194866-60-9P  
 194866-63-2P 194866-65-4P 194866-67-6P 194866-69-8P 194866-71-2P  
 194866-73-4P 194866-74-5P 194866-75-6P 194866-76-7P 194866-77-8P  
 194866-78-9P 194866-79-0P 194866-80-3P 194866-81-4P 194866-82-5P

194866-83-6P 194866-84-7P

RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(epoxy phenolic resin binder compns. contg. boron compd. crosslinking accelerators for carbon dioxide-hardening molds)

IT 124-38-9, Carbon dioxide, reactions

RL: RCT (Reactant); RACT (Reactant or reagent)

(epoxy phenolic resin binder compns. contg. boron compd. crosslinking accelerators for carbon dioxide-hardening molds)

IT 919-30-2, .gamma.-Aminopropyltriethoxysilane

RL: MOA (Modifier or additive use); USES (Uses)

(silane coupling agents, binders contg.; epoxy phenolic resin binder compns. contg. boron compd. crosslinking accelerators for carbon dioxide-hardening molds)

#### REFERENCE 3

AN 111:155047 CA

TI Glycidyl ether-modified phenolic resins

IN Kawamura, Nobuyuki

PA Matsushita Electric Works, Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM C08G008-28

CC 37-3 (Plastics Manufacture and Processing)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 01074212	A2	19890320	JP 1987-230515	19870914
PRAI	JP 1987-230515		19870914		

AB The title resins are prepd. with good flexibility. Heating PhOH 2545, 47% HCHO 1400, polyethylene glycol diglycidyl ether 1346 g, and oxalic acid 8.4 g at 105.degree. for 3 h and dehydrating in vacuo gave a copolymer, 50 parts of which was mixed with powd. wood 30, glass fibers 15, hexamine 4, and Zn stearate 1 part. Curing this compn. at 165.degree. for 2 min gave a product with flexural strength 13 kg/mm2, flexural modulus 520 kg/mm2, Charpy impact strength 5.6 kg-cm/cm2, du Pont impact strength 25 kg-cm, and good crack resistance; vs. 12, 961, 2.6, 9, and poor, resp., for an unmodified phenolic resin.

ST phenolic resin blend glycidyl ether; crack resistance phenolic resin; polyoxyethylene glycidyl ether blend

IT 123011-96-1P

RL: PREP (Preparation)

(manuf. of, with good flexibility)

L1 ANSWER 5 OF 6 REGISTRY COPYRIGHT 2006 ACS on STN

RN 80833-82-5 REGISTRY

ED Entered STN: 16 Nov 1984

CN 2-Propenoic acid, polymer with .alpha.-(oxiranylmethyl)-.omega.-(oxiranylmethoxy)poly(oxy-1,2-ethanediyl), sodium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Poly(oxy-1,2-ethanediyl), .alpha.-(oxiranylmethyl)-.omega.-(oxiranylmethoxy)-, polymer with 2-propenoic acid, sodium salt (9CI)

OTHER NAMES:

CN \*\*\*Acrylic acid-Denacol EX-841 copolymer sodium salt\*\*\*

MF (C3 H4 O2 . (C2 H4 O)n C6 H10 O3)x . x Na

PCT Epoxy resin, Polyacrylic, Polyether

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA Caplus document type: Patent

RL.P Roles from patents: PREP (Preparation); PRP (Properties); USES (Uses)

#### Ring System Data

Elemental Analysis	Elemental Sequence	Size of the Rings	Ring System Formula	Ring Identifier	RID Occurrence
EA	ES	SZ	RF	RID	Count
C2O	OC2	3	C2O	1.30.1	2 in CM

CM 1

CRN 80833-81-4

CMF (C3 H4 O2 . (C2 H4 O)n C6 H10 O3)x

CCI PMS

CM 2

CRN 26403-72-5

CMF (C2 H4 O)n C6 H10 O3

CCI PMS

/ Structure 12 in file .gra /

CM 3

CRN 79-10-7

CMF C3 H4 O2

/ Structure 13 in file .gra /

8 REFERENCES IN FILE CA (1907 TO DATE)

8 REFERENCES IN FILE CAPLUS (1907 TO DATE)

## REFERENCE 1

AN 141:72772 CA

TI Water-blocking tapes for optical or electric cable

IN Izutsu, Kaori; Takahara, Yutaka; Amako, Naotake; Ikegami, Koichi

PA Awa Paper Mfg. Co., Ltd., Japan; Gooch Chemical Industry Co., Ltd.

SO Jpn. Kokai Tokkyo Koho, 16 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM H01B007-282

ICS C08J005-24; C09K003-10; H01B007-17; C08L033-00

CC 38-3 (Plastics Fabrication and Uses)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	JP 2004192922	A2	20040708	JP 2002-358602	20021210
PRAI	JP 2002-358602	20021210			

AB The tapes comprise a (non)woven fabric and an impregnated crosslinked resin layer, where the resin is derived by partially neutralizing a (meth)acrylic acid monomer component, followed by polymn. or polyng. the monomer component first, followed by partial neutralization. A polyester nonwoven fabric was soaked in a compn. contg. polyacrylic acid Na salt and polyethylene glycol diglycidyl ether and crosslinked to give a highly water absorbent sheet.

ST water blocking tape optical elec cable; polyacrylic acid sodium salt water blocking tape

IT Materials

(tapes; water-blocking tapes for optical or elec. cable)

IT Absorbents

(water, tapes; water-blocking tapes for optical or elec. cable)

IT Electric cables

Optical cables

(water-blocking tapes for optical or elec. cable)

IT 80833-82-5P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(water-absorbent resin; water-blocking tapes for optical or elec. cable)

IT 7631-86-9, Silica, uses 39290-68-1, Gohsefimer Z200

RL: TEM (Technical or engineered material use); USES (Uses)

(water-blocking tapes for optical or elec. cable)

REFERENCE 2

AN 139:324697 CA

TI Adhesion of poly(carboxylic acid)-type compounds to fibers for washfast hydrophilic and temperature retention properties, by adhering mixtures comprising poly(carboxylic acid) compounds, polyfunctional group-containing crosslinking agents and binders to fibers and heat-treating the fibers and adhered materials therefrom

IN Yamagata, Tamiji

PA Daiwa Chemical Industries Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 5 pp.  
CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM D06M015-263  
ICS C08K005-29; C08L033-00; C08L035-00; C08L061-00; C08L061-28; C08L063-00; C08L101-00; D06M015-39; D06M015-423; D06M015-53; D06M015-564

CC 40-9 (Textiles and Fibers)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2003301380	A2	20031024	JP 2002-134700	20020403
PRAI	JP 2002-134700		20020403		

AB The finished fibers are prepd. by the steps comprising the steps of (a) adhering mixts. comprising poly(carboxylic acid) compds. (A), crosslinking agents (B) contg. polyfunctional groups, and binders and (b) heat-treating the fibers, or the finished fibers are prepd. by the above steps using A compds. having one or whole portions of the carboxylic groups of A compds. substituted with metals, or the finished fibers are prepd. by the above steps using .gtoreq.1 type of compds. form melamine resins, glyoxal resins, blocked polyisocyanate derivs. and polyglycidyl derivs. as B crosslinking agents. A polyester fabric was immersed in an aq. compn. contg. poly(acrylic acid) 5, polyethylene glycol diglycidyl ether 0.5, and acrylic polymer binder 1% to pickup 100%, dried, heat-treated 1 min at 180.degree., and treated with an aq. soln. contg. 2 g/L NaOH for 20 min at 60.degree., and washed to give a fabric showing H2O content (temp. retention degree) 2.46% initially and 2.33% after 30 washings.

ST polyester fabric finish acrylic acid copolymer heat retention enhancement; textile finish acrylic acid copolymer heat retention property enhancement; hydrophilization fiber acrylic acid copolymer finish

IT Fabric finishing  
Thermal insulators  
(adhesion of poly(carboxylic acid) compds. to fibers for washfast hydrophilic and temp. retention properties, by adhering mixts. of poly(carboxylic acid) compds., polyfunctional crosslinking agents and binders to the fibers)

IT Fibers  
RL: PEP (Physical, engineering or chemical process); PYP (Physical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
(adhesion of poly(carboxylic acid) compds. to fibers for washfast hydrophilic and temp. retention properties, by adhering mixts. of poly(carboxylic acid) compds., polyfunctional crosslinking agents and binders to the fibers)

IT Acrylic polymers, uses  
Polyurethanes, uses  
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(binders; adhesion of poly(carboxylic acid) compds. to fibers for washfast hydrophilic and temp. retention properties, by adhering mixts. of poly(carboxylic acid) compds., polyfunctional crosslinking agents and binders to the fibers)

IT Hydrophilicity  
(enhancement of; adhesion of poly(carboxylic acid) compds. to fibers for washfast hydrophilic and temp. retention properties, by adhering mixts. of poly(carboxylic acid) compds., polyfunctional crosslinking agents and binders to the fibers)

IT Polyester fibers, uses  
RL: PEP (Physical, engineering or chemical process); PRP (Properties); PYP (Physical process); TEM (Technical or engineered material use); PROC

(Process); USES (Uses)  
(fabrics; adhesion of poly(carboxylic acid) compds. to fibers for washfast hydrophilic and temp. retention properties, by adhering mixts. of poly(carboxylic acid) compds., polyfunctional crosslinking agents and binders to the fibers)

IT 80833-82-5P

RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(finish; adhesion of poly(carboxylic acid) compds. to fibers for washfast hydrophilic and temp. retention properties, by adhering mixts. of poly(carboxylic acid) compds., polyfunctional crosslinking agents and binders to the fibers)

#### REFERENCE 3

AN 138:239370 CA  
TI Highly water-absorbing nonwoven fabrics  
IN Tokuhiko, Toshiya  
PA Kurashiki Textile Mfg. Co., Ltd., Japan  
SO Jpn. Kokai Tokkyo Koho, 4 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese  
IC ICM B32B027-30  
ICS A01G007-00; B32B027-12; D04H001-40  
CC 40-10 (Textiles and Fibers)  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2003089174	A2	20030325	JP 2001-283113	20010918
PRAI	JP 2001-283113		20010918		

AB The nonwoven fabrics, useful for water retention materials for horticulture, construction works, etc., are prepd. by allowing (meth)acrylate salt resins contg. thermal crosslinking agents to adhere to fiber materials of nonwoven fabrics and heating to cure to form highly water-absorbing resin layers. Thus, acrylic acid was polymd. in an aq. soln. contg. Me<sub>2</sub>CHOH and acetoacetyl group-modified poly(vinyl alc.), neutralized with NaOH, mixed with 1% (to solids content) polyethylene glycol diglycidyl ether, impregnated into a rayon/polyester nonwoven fabric, and heated to 160.degree. for 5 min to give a water-absorbing fabric, which was needle-punched with another rayon/polyester fabric to give a sample, showing water absorption capacity 660%, gel drop-out ratio after water absorption 3.2%, and good diffusion of water.

ST crosslinked sodium polyacrylate water absorbing nonwoven

IT Absorbents

Nonwoven fabrics

(highly water-absorbing nonwoven fabrics contg. crosslinked (meth)acrylate salt resins)

IT Rayon, uses

RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)

(polyester-, fabrics, nonwoven; highly water-absorbing nonwoven fabrics contg. crosslinked (meth)acrylate salt resins)

IT Polyester fibers, uses

RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)

(rayon-, fabrics, nonwoven; highly water-absorbing nonwoven fabrics contg. crosslinked (meth)acrylate salt resins)

IT 80833-82-5P

RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(highly water-absorbing nonwoven fabrics contg. crosslinked (meth)acrylate salt resins)

#### REFERENCE 4

AN 130:99461 CA  
TI Additives for hydraulic compositions, preparation of the additives, and cement compositions containing the additives  
IN Tahara, Hideyuki; Ito, Hiroshi; Mori, Yasuhiro; Mizushima, Makoto  
PA Nippon Shokubai Kagaku Kogyo Co, Ltd., Japan  
SO U.S., 47 pp., Cont. of U.S. Ser. No. 498,704, abandoned.

CODEN: USXXAM  
 DT Patent  
 LA English  
 IC ICM C08K003-00  
 ICS C04B028-00; C08F220-00  
 NCL 524005000  
 CC 58-2 (Cement, Concrete, and Related Building Materials)  
 Section cross-reference(s): 38  
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5854318	A	19981229	US 1996-759435	19961205
	US 5476885	A	19951219	US 1991-668513	19910325

PRAI	JP 1989-190656	19890725
	JP 1989-262242	19891009
	JP 1989-297455	19891117
	US 1991-668513	19910325
	US 1995-498704	19950703
	JP 1998-228313	19980905
	JP 1989-228313	19890905
	WO 1990-JP946	19900723

AB The hydraulic compns. comprise a hydraulic material, water, and an additive comprising a crosslinked polymer in which, between main chains having water-sol. polymer structure of wt.-av. mol. wt. 500-100,000, a bond having as a structural unit .gtoreq.1 divalent groups having general formula R1CO2R2 [independently, R1, R2 is selected from CH2, CH(R) p-Ph, CR(R1), and CH2CH(OH), with the proviso that R1 is not required if R2 is CH2CH(OH) (independently, R, R1 = C1-5-alkyl)], and in which the main chains comprise .gtoreq.1 members selected from CO2M, CO2(R5O)mSO3M, CONHR7SO3M, (CH2)nSO3M, and p-Ph-SO3M (m = 0 or integral no. of 1-50; n = 0 or 1; M is .gtoreq.1 selected from H, mono-, di-, or trivalent metal, NH4, and org. amine; independently, R1, R6 = C2-4-alkylene; R7 = C1-5-alkylene; with the proviso that when m .gtoreq.2, many of R5O may be the same or different, and, when many of R5O are different from one another, their arrangement may be regular or irregular), and in which the crosslinked polymer is capable of forming a water-sol. polymer by cleavage of the divalent group in an alk. medium. The additive are prepd. by obtaining a crosslinked polymer by a polymg. a monomer contg. .gtoreq.2 polymerizable double bonds and has as structural unit .gtoreq.1 divalent groups as above, with a monomer having one polymerizable double bond capable of copolymg. with the double bonds and capable to form a main chain structure capable of leading to a water-sol. polymer as above. Into a reactor, contg. N-stirred boiling water 164.2 were introduced a soln. contg. NK-ester M-9G (methoxypolyethylene glycol monomethacrylate; av. added ethylene oxide mole no. is 9) 62.9, methacrylic acid 16.7, and water 125.5, and, in addn., 2.5% aq. (NH4)S2O8 soln. 24.6 wt. parts over 4 h. Then, 6.1 wt. parts 2.5% aq. (NH4)S2O8 soln. were added over 1 h, and the mixt. was maintained at the b.p. for 1 h to complete the polymn. reaction, whereby a water-sol. polymer was obtained. To this polymer were added 3.2 wt. parts Denacol EX-721 (o-phthalic acid diglycidyl ester) and the mixt. maintained at the b.p. for 3 h, and neutralized with aq. NaOH to obtain a hydrophilic resin. A concrete mix contg. portland cement 320, water 173, fine aggregate (sand) 934, and coarse aggregate (crushed stone) 876 kg/m3, and 0.12 wt.% hydrophilic resin as above had initial, and 60-, 90, and 120-min slump an air content 17.7 and 4.9, 19.3 and 5.2, 18.5 and 5.1, and 17.8 cm and 4.8%, and 28-day condensation strength 352 kg/cm2 and beginning and ending setting time 5:25 and 7 h and 18 min, vs. 18.2 and 4.8, 16.8 and 4.9, 14.2 and 4.6, and 10.4 and 4.2, and 338 and 5:24 and 7:19, resp.

ST copolymer dispersant cement concrete; NK ester M 9G 23G methacrylic acid copolymer; hydroxyethyl methacrylate copolymer; crosslinking agent Denacol EX acrylic copolymer; acrylic copolymer sodium salt dispersant; ethylene oxide propylene oxide copolymer; Blenmer 70PEP 350B copolymer; methoxypolyethyleneglycol methacrylate copolymer; Denacol EX 202 611 701 721 810 841 861; acrylamidomethylpropanesulfonic acid copolymer; sulfoethylmethacrylate acrylic acid copolymer; sulfopropoxyethyleneglycol acrylate copolymer; Kayarad R 526 Manda HX 202 copolymer; formaldehyde naphthalenesulfonate dispersant; lignosulfonic acid sodium salt dispersant; dimethylaminoethyl methacrylate copolymer; polyethyleneoxide monoallyl ether copolymer; maleic acid copolymer Denacol 830; ethyleneimine ethylene copolymer; styrenesulfonate olefin copolymer; vinylsulfonic acid copolymer; diethylaminoethylmethacrylamide copolymer; DA 721 sulfoethylmethacrylate copolymer; DM 832 copolymer dispersant

IT Epoxy resins, preparation  
Polyoxyalkylenes, preparation  
RL: IMF (Industrial manufacture); PREP (Preparation)  
(acrylic, dispersants, manuf. of; for concrete, for slump loss prevention)

IT Polyoxyalkylenes, preparation  
Polyoxyalkylenes, preparation  
RL: IMF (Industrial manufacture); PREP (Preparation)  
(acrylic-epoxy, dispersants, manuf. of; for concrete, for slump loss prevention)

IT Epoxy resins, preparation  
Epoxy resins, preparation  
RL: IMF (Industrial manufacture); PREP (Preparation)  
(acrylic-polyoxyalkylene-, dispersants, manuf. of; for concrete, for slump loss prevention)

IT Polyoxyalkylenes, preparation  
RL: IMF (Industrial manufacture); PREP (Preparation)  
(allyl group-contg., polymers with Denacol EX 202 and maleic acid, sodium salts, dispersants, manuf. of; for concrete, for slump loss prevention)

IT Cement (construction material)  
(crosslinked acrylic copolymer dispersants for)

IT Concrete  
(crosslinked acrylic copolymer dispersants for cement in)

IT Dispersing agents  
Plasticizers  
(crosslinked acrylic copolymer dispersants; manuf. of, for concrete, for slump loss prevention)

IT Polyoxyalkylenes, preparation  
Polyoxyalkylenes, preparation  
RL: IMF (Industrial manufacture); PREP (Preparation)  
(epoxy, dispersants, manuf. of; for concrete, for slump loss prevention)

IT Epoxy resins, preparation  
Epoxy resins, preparation  
RL: IMF (Industrial manufacture); PREP (Preparation)  
(polyoxyalkylene-, dispersants, manuf. of; for concrete, for slump loss prevention)

IT 110-16-7DP, Maleic acid, polymers with Denacol EX-202 and polyalkylene glycol monoallyl ethers, sodium salts 2867-47-2DP, N,N-Dimethylaminoethyl methacrylate, quaternized, polymers with Denacol EX-721 and sodium acrylate 7446-81-3DP, Sodium acrylate, polymers with Denacol EX-721 and quaternized dimethylaminoethyl methacrylate 37099-12-ODP, Denacol EX-721, polymers with quaternized dimethylaminoethyl methacrylate and sodium acrylate 54590-60-2DP, Denacol EX-202, polymers with maleic acid and polyalkylene glycol monoallyl ethers, sodium salts 80833-82-5P, Acrylic acid-Denacol EX-841 copolymer sodium salt 136673-67-1P, Denacol EX-721-methacrylic acid-polyethyleneglycol polypropyleneglycol methacrylate copolymer 137112-16-4P, Acrylic acid-ethyleneimine-Denacol EX-202-sodium acrylate copolymer 137112-17-5P, Denacol EX-202-ethyleneimine-methacrylic acid copolymer 137112-19-7P, Denacol EX-721-ethyleneimine-maleic anhydride-styrene copolymer 137112-27-7P, Denacol EX-861-methacrylic acid-polyethyleneglycol polypropyleneglycol methacrylate copolymer 137213-43-5P, Denacol EX-202-polyethyleneglycol monoallyl ether-sodium acrylate copolymer 218956-35-5P 218956-37-7P 218956-39-9P 218956-41-3P 218956-43-5P 218956-45-7P 218956-47-9P 218956-49-1P 218956-51-5P 218956-53-7P 218956-55-9P 218956-57-1P 218956-59-3P 218956-61-7P 218956-63-9P 218956-65-1P 218956-67-3P 218956-69-5P 218956-71-9P 218956-73-1P 218956-75-3P 218956-77-5P 218956-78-6P 218956-79-7P 218956-82-2P 218956-83-3P 218956-89-9P, Denacol EX-202-polyethyleneglycol monoallyl ether-sodium methacrylate copolymer 218956-91-3P, Denacol EX-830-polyethyleneglycol monoallyl ether-sodium methacrylate copolymer 218956-97-9P 218957-02-9P 218957-05-2P 218957-08-5P 218957-11-0P 218957-14-3P 218957-17-6P 218957-19-8P 218957-20-1P 218957-22-3P 218957-24-5P 218957-26-7P 218957-28-9P 219316-95-7P 219320-31-7P 219320-37-3P 219320-39-5P 219320-40-8P 219478-34-9P  
RL: IMF (Industrial manufacture); PREP (Preparation)  
(dispersant, manuf. of; for concrete, for slump loss prevention)

IT 8061-51-6, Sodium lignosulfonate 9008-63-3, Formaldehyde-sodium naphthalenesulfonate copolymer  
RL: NUU (Other use, unclassified); USES (Uses)

(dispersants contg. crosslinked acrylic polymers and; for concrete, for slump loss prevention)

RE.CNT 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD

- (1) Anon; DE 1948755 1970 CAPLUS
- (2) Anon; FR 2377421 1978 CAPLUS
- (3) Anon; JP 54139929 1979 CAPLUS
- (4) Anon; JP 5452196 1979
- (5) Anon; FR 2525121 1983 CAPLUS
- (6) Anon; JP 60161365 1985 CAPLUS
- (7) Anon; JP 6016851 1985
- (8) Anon; EP 0240586 1986 CAPLUS
- (9) Anon; EP 0256144 1986 CAPLUS
- (10) Anon; JP 6131497 1986
- (11) Anon; JP 6131498 1986
- (12) Anon; JP 62119147 1987 CAPLUS
- (13) Anon; JP 62216950 1987 CAPLUS
- (14) Anon; JP 62241855 1987 CAPLUS
- (15) Anon; JP 62292664 1987 CAPLUS
- (16) Anon; JP 6230648 1987
- (17) Anon; EP 0291590 A 1988 CAPLUS
- (18) Anon; JP 63162562 1988 CAPLUS
- (19) Anon; JP 63291840 1988 CAPLUS
- (20) Anon; JP 63305199 1988 CAPLUS
- (21) Anon; JP 63305200 1988 CAPLUS
- (22) Anon; EP 0377448 1990 CAPLUS
- (23) Anon; Polymer Preprints 1989, V38(3)
- (24) Boeckh; US 4980088 1990 CAPLUS
- (25) Dammann; US 4338239 1982 CAPLUS
- (26) Emmons; US 4120839 1978 CAPLUS
- (27) Herron; US 5183707 1993 CAPLUS
- (28) Hsu; US 4758641 1988 CAPLUS
- (29) Ito; US 4743301 1988 CAPLUS
- (30) Khoshdel; US 5159041 1992 CAPLUS
- (31) Patzschke; US 4857580 1989 CAPLUS
- (32) Pettit; US 4727111 1988 CAPLUS
- (33) Seelmann-Eggbert; US 5104951 1992 CAPLUS
- (34) Tahara; US 5298570 1994 CAPLUS
- (35) Tahara; US 5476885 1995 CAPLUS
- (36) Tonge; US 4764554 1988 CAPLUS
- (37) Tsubakimoto; US 4666983 1987 CAPLUS
- (38) Tsubakimoto; US 4870120 1989 CAPLUS
- (39) Vaughn; US 3687909 1972 CAPLUS
- (40) Yamaguchi; US 5064563 1991 CAPLUS
- (41) Yamaguchi; US 5135677 1992 CAPLUS

REFERENCE 5

AN 129:331856 CA  
TI (Meth)acrylic acid salt-based polymer solutions, water-absorbing  
composites and fabrics, and their manufacture  
IN Amako, Naotake; Ikegami, Koichi  
PA Gooh Chemical Industry Co., Ltd., Japan  
SO Jpn. Kokai Tokkyo Koho, 8 pp.  
CODEN: JKXXAF

DT Patent  
LA Japanese

IC ICM C08F220-06  
ICS A01G001-00; C08F002-44; C08F008-00; C08F008-44; D06M014-14;  
D06M015-27; D21H019-20

CC 38-3 (Plastics Fabrication and Uses)  
Section cross-reference(s): 40

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10287714	A2	19981027	JP 1997-97243	19970415
	JP 3650506	B2	20050518		
PRAI	JP 1997-97243		19970415		

AB Title polymer solns. are prepn. by soln. polymg. the (meth)acrylic acid monomers in the presence of poly(vinyl alc.) (I) and partially neutralizing (meth)acrylic acid monomers or polymers with basic compds. before or after polymn. The composites, useful for water-absorbing fabrics, are manufd. by adding thermal crosslinking agents to the solns.,

applying the mixts. (A) onto substrates, and heating the substrates to form a water-absorbing resin layer. Thus, acrylic acid was polymd. in the presence of Gohsefimer Z 200 (modified I), neutralized with NaOH, mixed with polyethylene glycol diglycidyl ether to form a compn., which was sprayed on polyester nonwoven fabric and heated at 180.degree. to give a sheet showing water absorption 158 g/g.

ST polyacrylic acid salt water absorbing fabric; polyethylene glycol glycidyl ether crosslinking agent; polyvinyl alc blend water absorbing composite

IT Polyoxyalkylenes, uses  
Polyoxyalkylenes, uses  
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(acrylic-epoxy; compns. contg. poly(meth)acrylic acid salts and poly(vinyl alc.) for water-absorbing materials)

IT Epoxy resins, uses  
Epoxy resins, uses  
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(acrylic-polyoxyalkylene-; compns. contg. poly(meth)acrylic acid salts and poly(vinyl alc.) for water-absorbing materials)

IT Polyester fibers, uses  
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(fabrics, nonwoven, polyester fibers, substrate; compns. contg. poly(meth)acrylic acid salts and poly(vinyl alc.) for water-absorbing materials)

IT Absorbents  
(for water absorption; compns. contg. poly(meth)acrylic acid salts and poly(vinyl alc.) for water-absorbing materials)

IT Textiles  
(water-absorbing; compns. contg. poly(meth)acrylic acid salts and poly(vinyl alc.) for water-absorbing materials)

IT 26403-72-5DP, Polyethylene glycol diglycidyl ether, copolymer with poly(acrylic acid) sodium salt and poly(vinyl alc.) acetoacetate  
39290-68-1DP, copolymer with poly(acrylic acid) sodium salt and polyethylene glycol diglycidyl ether 80833-82-5P 216690-03-8DP, copolymer with polyethylene glycol diglycidyl ether and poly(vinyl alc.) acetoacetate 216690-14-1DP, copolymer with acrylic acid, polyethylene glycol diglycidyl ether and poly(vinyl alc.) acetoacetate  
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(compns. contg. poly(meth)acrylic acid salts and poly(vinyl alc.) for water-absorbing materials)

IT 9002-89-5, Gohsenol GH 17  
RL: TEM (Technical or engineered material use); USES (Uses)  
(compns. contg. poly(meth)acrylic acid salts and poly(vinyl alc.) for water-absorbing materials)

#### REFERENCE 6

AN 127:191215 CA  
TI Preparation of super-absorbent polymers from water-soluble vinyl monomers  
IN Igarashi, Tadashi  
PA Kao Corp., Japan  
SO Jpn. Kokai Tokkyo Koho, 9 pp.  
CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM C08F002-44

ICS C08F002-32

CC 35-4 (Chemistry of Synthetic High Polymers)

Section cross-reference(s): 38

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09194514	A2	19970729	JP 1996-4511	19960116
PRAI	JP 1996-4511		19960116		

AB Title polymers with high water absorption rate and stable and strong gel structure are prepd. by polyimg. water-sol. vinyl monomers in the presence of alkoxytitanium. Thus, a mixt. of acrylic acid 102.0, H2O 25.5, 30% aq. NaOH 140, K2S2O8 0.153, Denacol EX 512 (polyglycerol polyglycidyl ether) 0.010, and TLA-A-50 (dihydroxybis lactatotitanium monoammonium) 0.9 g was

treated with a mixt. of 400 mL cyclohexane and 0.625 g N-100 (Et cellulose) at 75.degree. to obtain super absorbent polymer showing water absorption 54.4 g/g, water absorption rate 0.9 mL/0.3-g, physiol. salt water permeation rate 141.3 mL/min., and stable gel structure.

ST super absorbent vinyl polymer prepn; water absorbent vinyl polymer prepn; strong gel structure vinyl polymer; alkoxytitanium vinyl monomer polymn super absorbent; polyacrylic acid prepn dihydroxytitanium bilactate; reverse phase suspension polymn super absorbent

IT Dispersing agents  
(for prepn. of vinyl polymers as super absorbents by reverse phase suspension polymn. in presence of alkoxytitanium)

IT Polymerization  
(reverse-phase, suspension; prepn. of vinyl polymers as super absorbents in presence of alkoxytitanium)

IT Absorbents  
(water; prepn. of vinyl polymers as super absorbents in presence of alkoxytitanium)

IT 9004-57-3, Ethyl cellulose  
RL: MOA (Modifier or additive use); USES (Uses)  
(N 100, dispersing agents; prepn. of vinyl polymers as super absorbents by reverse phase suspension polymn. in presence of alkoxytitanium)

IT 79110-90-0, Orgatix TC 315  
RL: MOA (Modifier or additive use); USES (Uses)  
(Orgatix TC 315; prepn. of vinyl polymers as super absorbents in presence of alkoxytitanium)

IT 36673-16-2, TEAT  
RL: MOA (Modifier or additive use); USES (Uses)  
(TEAT; prepn. of vinyl polymers as super absorbents in presence of alkoxytitanium)

IT 160047-67-6  
RL: MOA (Modifier or additive use); USES (Uses)  
(TLA-A 50; prepn. of vinyl polymers as super absorbents in presence of alkoxytitanium)

IT 9004-82-4, Emal E 27C 37318-31-3, Ryoto Sugar Ester S 570 38517-37-2, Amisoft MS 11  
RL: MOA (Modifier or additive use); USES (Uses)  
(dispersing agents; prepn. of vinyl polymers as super absorbents by reverse phase suspension polymn. in presence of alkoxytitanium)

IT 80833-80-3P 80833-82-5P 124701-97-9P 194475-57-5P  
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(prepn. of vinyl polymers as super absorbents in presence of alkoxytitanium)

IT 5593-70-4, B-1 80778-56-9, TAT  
RL: MOA (Modifier or additive use); USES (Uses)  
(prepn. of vinyl polymers as super absorbents in presence of alkoxytitanium)

# REFERENCE 7

AN 112:160374 CA  
TI Hygroscopic fibers for medical and agricultural materials  
IN Kawame, Toshimitsu; Nozawa, Hiroshi; Kono, Naotake  
PA Kuraray Co., Ltd., Japan  
SO Jpn. Kokai Tokkyo Koho, 4 pp.  
CODEN: JKXXAF

DT Patent  
LA Japanese  
IC ICM D01F006-52  
ICS A41B013-02; D01D005-04  
ICA A61F013-18; C08L033-02; D04H001-42  
CC 40-2 (Textiles and Fibers)  
Section cross-reference(s): 19, 63

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 01260014	A2	19891017	JP 1988-86714	19880407
PRAI	JP 1988-86714		19880407		

AB The title fibers are prepd. by forming fibers from mixts. comprising (meth)acrylic polymers with the degree of neutrality 0.2-0.95 and polyepoxy compds. or polyamines and then heat treating the fibers. Thus, acrylic acid homopolymers 100, NaOH 41.6, and H2O 1274 parts were mixed to

give a polymer with the degree of neutrality 0.75. Glycerol diglycidyl ether (0.3 part) was added, and the mixt. was dried in a compact spray drier for 20-305 at 30,000 rpm and heat treated 1 h at 120.degree. to give hygroscopic short fibers with water absorption ratio 220.

ST acrylic fiber hygroscopic manuf; acrylic acid copolymer fiber hygroscopic  
IT Synthetic fibers, polymeric  
RL: USES (Uses)  
(acrylic acid-aziridine, sodium salts, hygroscopic, manuf. of)

IT Synthetic fibers, polymeric  
RL: USES (Uses)  
(acrylic acid-glycerol diglycidyl ether, sodium salts, hygroscopic, manuf. of)

IT Synthetic fibers, polymeric  
RL: USES (Uses)  
(acrylic acid-polyethylene glycol diglycidyl ether, sodium salts, hygroscopic, manuf. of)

IT Medical goods  
(sanitary napkins, hygroscopic (meth)acrylic acid copolymer fibers for)

IT 80833-82-5P 125193-57-9P 126142-89-0P  
RL: PREP (Preparation)  
(fiber, hygroscopic, manuf. of)

# REFERENCE 8

AN 96:105407 CA  
TI Cooling agents  
PA Showa Denko K. K., Japan  
SO Jpn. Kokai Tokkyo Koho, 7 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese  
IC C09K005-00  
CC 38-3 (Plastics Fabrication and Uses)  
Section cross-reference(s): 17

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 56090881	A2	19810723	JP 1979-166925	19791224
	JP 61004867	B4	19860213		
PRAI	JP 1979-166925		19791224		

AB Cooling agents contg. H2O and Na salt of a copolymer of (meth)acrylic acid with polyethylene glycol diglycidyl ether (I), bisphenol A-epichlorohydrin copolymer, or epichlorohydrin-phthalic acid copolymer and optionally with an ethylenic monomer do not freeze at < 0.degree. and useful for preservation of food. Thus, 10 g acrylic acid was polyemd. with 0.05 g I in the presence of 21.8 mL 7N NaOH to give a polymer salt (II) [80833-82-5] with water absorption ratio 166. A compn. contg. H2O 100, ethylene glycol [107-21-1] 17.6, and II 1 part was stored in a refrigerator at -20.degree. to give a soft nonsolid compn., whereas solidification occurred for a similar compn. contg. polyacrylic acid Na salt instead of II at -10.degree..

ST acrylic polymer antifreeze coolant; polyoxyethylene ether antifreeze coolant; coolant nonfreezing food preservation

IT Food  
(preservation of, cooling agents for)

IT Antifreeze substances  
(sodium salts of (meth)acrylic copolymers with difunctional epoxy compds., for coolants)

IT 80833-82-5  
RL: USES (Uses)  
(antifreeze agents, for coolants for food preservation)

IT 107-21-1, uses and miscellaneous  
RL: USES (Uses)  
(antifreeze compns. contg., for coolants)

L1 ANSWER 6 OF 6 REGISTRY COPYRIGHT 2006 ACS on STN

RN 58782-18-6 REGISTRY

ED Entered STN: 16 Nov 1984

CN Poly(oxy-1,2-ethanediyl), .alpha.-(oxiranylmethyl)-.omega.-(oxiranylmethoxy)-, homopolymer (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Denacol 821

CN Denacol EX 821  
 CN Denacol EX 830  
 CN Denacol EX 831  
 CN Denacol EX 832  
 CN \*\*\*Denacol EX 841\*\*\*  
 CN Denacol EX 850  
 CN Denacol EX 861  
 CN Epikote YED 205  
 CN Epiol E 1000  
 CN Epiol E 400  
 CN Epiol PE 06  
 CN Epolite 1000E  
 CN Epolite 200E  
 CN Epolite 400E  
 CN NER 010  
 CN Nonaethylene glycol diglycidyl ether polymer  
 CN PEGE 400  
 CN Poly(nonaethylene glycol diglycidyl ether)  
 CN Polyethylene glycol diglycidyl ether homopolymer  
 CN Polyethylene glycol diglycidyl ether polymer  
 CN Polyethylene oxide diglycidyl ether homopolymer  
 CN SR 8EG  
 CN SR 8EGS  
 CN UE 101  
 CN YD 716  
 CN YED 205  
 CN Yukikoto E 1080  
 CN Yukikoto E 394  
 CN Yukikoto E 587  
 DR 59976-18-0, 105808-78-4, 70644-81-4, 70852-30-1, 148499-22-3, 82446-93-3  
 MF ((C2 H4 O)n C6 H10 O3)x  
 CI PMS, COM  
 PCT Epoxy resin, Polyether  
 LC STN Files: AGRICOLA, CA, CAPLUS, CASREACT, PIRA, TOXCENTER, USPAT2,  
 USPATFULL  
 DT.CA Caplus document type: Conference; Journal; Patent  
 RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);  
 PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or  
 reagent); USES (Uses)  
 RLD.P Roles for non-specific derivatives from patents: BIOL (Biological  
 study); PREP (Preparation); PRP (Properties); USES (Uses)  
 RL.NP Roles from non-patents: BIOL (Biological study); PREP (Preparation);  
 PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES  
 (Uses)

# Ring System Data

Elemental Analysis EA	Elemental Sequence ES	Size of the Rings SZ	Ring System Formula RF	Ring Identifier RID	RID Occurrence Count
=====	=====	=====	=====	=====	=====
C2O	OC2	3	C2O	1.30.1	2

CM 1

CRN 26403-72-5  
 CMF (C2 H4 O)n C6 H10 O3  
 CCI PMS

/ Structure 14 in file .gra /

217 REFERENCES IN FILE CA (1907 TO DATE)  
 30 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 217 REFERENCES IN FILE CAPLUS (1907 TO DATE)

## REFERENCE 1

AN 144:43269 CA  
 TI Manufacture of electrophoretic display microcapsule in aqueous medium in  
 the presence of ion-exchange resin

IN Miyazaki, Atsushi; Ito, Akio; Kushino, Mitsuo  
 PA Seiko Epson Corp., Japan; Nippon Shokubai Co., Ltd.  
 SO Jpn. Kokai Tokkyo Koho, 15 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 IC ICM G02F001-167  
 ICS B01J013-20; G02F001-17  
 CC 74-12 (Radiation Chemistry, Photochemistry, and Photographic and Other  
 Reprographic Processes)  
 Section cross-reference(s): 38

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2005338190	A2	20051208	JP 2004-153791	20040524
PRAI	JP 2004-153791		20040524		
AB	Disclosed is a process comprising a step of forming an electrophoretic display microcapsule in an aq. medium in the presence of ion-exchange resin. As the ion-exchange resin, a strong acid-type pos. ion-exchange resin and a strong base-type neg. ion-exchange resin are used together. The microcapsule has a polyethylene glycol chain bonded on the surface.				
ST	electrophoresis electrophoretic display microcapsule ion exchange resin				
IT	Optical imaging devices (electrophoretic; manuf. of electrophoretic display microcapsule in aq. medium in presence of ion-exchange resin)				
IT	Ion exchangers Microcapsules (manuf. of electrophoretic display microcapsule in aq. medium in presence of ion-exchange resin)				
IT	Electrophoresis apparatus (optical imaging; manuf. of electrophoretic display microcapsule in aq. medium in presence of ion-exchange resin)				
IT	58782-18-6, Denacol EX 841 465538-53-8, Diaion TSA 1200 870778-30-6, Duolite SC 100 RL: CPS (Chemical process); NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); PROC (Process); USES (Uses) (manuf. of electrophoretic display microcapsule in aq. medium in presence of ion-exchange resin)				

REFERENCE 2

AN 143:441307 CA  
 TI Incombustible composition and synthetic resin foam premixes prepared thereby  
 IN Tamai, Ryoichi; Okamoto, Satoru; Hibino, Yasuo  
 PA Central Glass Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 9 pp.  
 CODEN: JKXXAF

DT Patent  
 LA Japanese  
 IC ICM C09K003-00  
 ICS C08G018-00; C08J009-14; C09K005-06; C11D007-50; C08G101-00; C08L075-04  
 CC 37-6 (Plastics Manufacture and Processing)  
 Section cross-reference(s): 38

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2005307062	A2	20051104	JP 2004-127615	20040423
PRAI	JP 2004-127615		20040423		
AB	An incombustible compn. comprises 30-80 wt.% 1,1,2,2-tetrafluoroethyl Me ether, 20-70 wt.% 1,1,1,3,3-pentafluoropropane, glycidyl ether-type stabilizer, such as N-methylpyrrolidone. Premix to produce polyurethane and/or polyisocyanate foams comprises blowing agent, polyols, catalysts, and other additives, and the blowing agent is the above incombustible compn. Polyols and polyisocyanate react in the presence of blowing agents to produce polyurethane or polyisocyanate foams. Thus, 1,1,2,2-tetrafluoroethyl Me ether and 1,1,1,3,3-pentafluoropropane were mixed at a wt. ratio of 20/80 to obtain a incombustible blowing agent that can be used in the prodn. or polyester-polyurethane foams from ester polyols and isocyanate (Cosmonate M 200) in the presence of polysiloxane (SH 193) and allyl glycidyl ether stabilizer.				

ST tetrafluoroethylmethyl ether pentafluoropropane blowing agent polyester polyurethane polyisocyanate foam

IT Polyoxyalkylenes, uses  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (di-Me polysiloxane-, SH 193; incombustible compn. as blowing agent for synthetic resin foam premixes prodn.)

IT Polysiloxanes, uses  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (di-Me, polyoxyalkylene-, SH 193; incombustible compn. as blowing agent for synthetic resin foam premixes prodn.)

IT Ethers, uses  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (glycidyl; incombustible compn. as blowing agent for synthetic resin foam premixes prodn.)

IT Blowing agents  
 Stabilizing agents  
 (incombustible compn. as blowing agent for synthetic resin foam premixes prodn.)

IT Plastic foams  
 RL: PEP (Physical, engineering or chemical process); PYP (Physical process); PROC (Process)  
 (incombustible compn. as blowing agent for synthetic resin foam premixes prodn.)

IT Polyurethanes, uses  
 RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)  
 (incombustible compn. as blowing agent for synthetic resin foam premixes prodn.)

IT Polyurethanes, uses  
 RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)  
 (polyester-; incombustible compn. as blowing agent for synthetic resin foam premixes prodn.)

IT 9016-87-9D, Cosmonate M 200, reaction products with ester polyols  
 RL: PEP (Physical, engineering or chemical process); POF (Polymer in formulation); PYP (Physical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
 (incombustible compn. as blowing agent for synthetic resin foam premixes prodn.)

IT 75-13-8D, Isocyanic acid, esters, polymers  
 RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)  
 (incombustible compn. as blowing agent for synthetic resin foam premixes prodn.)

IT 67-68-5, Dimethylsulfoxide, uses 96-48-0, .gamma.-Butyrolactone 106-92-3, Allyl glycidyl ether 127-19-5, Dimethylacetamide 425-88-7, 1,1,2,2-Tetrafluoroethyl methyl ether 460-73-1, 1,1,1,3,3-Pentafluoropropane 872-50-4, NMP, uses 930-37-0, Epiol M 2461-15-6, Epiol EH 54847-49-3, Epiol NPG 100 55126-81-3, Epiol E 100 58782-18-6, Epiol E 400 62528-51-2, Epiol L 41 140841-73-2, Epiol BE 200  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (incombustible compn. as blowing agent for synthetic resin foam premixes prodn.)

REFERENCE 3

AN 143:435356 CA  
 TI Cell culture carrier consisting of crosslinked collagen  
 IN Mitsutaka, Toshihiro; Takamatsu, Minori  
 PA Japan Science and Technology Agency, Japan; Ihara & Co., Ltd.  
 SO Jpn. Kokai Tokkyo Koho, 11 pp.  
 CODEN: JKXXAF

DT Patent  
 LA Japanese  
 IC ICM C12M003-00  
 CC 9-11 (Biochemical Methods)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2005312338	A2	20051110	JP 2004-133006	20040428
PRAI	JP 2004-133006		20040428		

AB A cell culture carrier excellent in stability is provided, which is prepd. by crosslinking collagen derived from marine organism with a low mol. wt. polyglycidyl ether (e.g., ethyleneglycol diglycidyl ether, propyleneglycol diglycidyl ether, polyethyleneglycol diglycidyl ether, polypropyleneglycol diglycidyl ether). The cell culture carrier can take a form of film or else.

ST carrier cell culture collagen crosslinking EGDE

IT Animal tissue culture  
Carriers  
Crosslinking  
(cell culture carrier consisting of crosslinked collagen)

IT Collagens, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(cell culture carrier consisting of crosslinked collagen)

IT Ethers, reactions  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(glycidyl; cell culture carrier consisting of crosslinked collagen)

IT 2224-15-9, Ethyleneglycol diglycidyl ether 16096-30-3, Propyleneglycol diglycidyl ether 26142-30-3, Polypropyleneglycol diglycidyl ether 26403-72-5, Polyethyleneglycol diglycidyl ether 39409-92-2, Epiol P-200 58782-18-6, Epiol E-400  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(cell culture carrier consisting of crosslinked collagen)

REFERENCE 4

AN 143:348566 CA

TI Oily solution for carbon fiber precursor and production of carbon fibers

IN Tanaka, Fumihiko; Yamasaki, Katsumi

PA Toray Industries, Inc., Japan

SO Jpn. Kokai Tokkyo Koho, 17 pp.  
CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM D06M015-53  
ICS D01F009-22

CC 40-2 (Textiles and Fibers)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	JP 2005264361	A2	20050929	JP 2004-75824	20040317
PRAI	JP 2004-75824		20040317		

AB An oily soln. for carbon fiber precursor contg. <2 wt.% silicon has a logarithmic decrement of 0.15-2 at 100-145.degree., and the soln. comprises >10 wt.% compds. contg. functional groups selected from radical reactive groups, such as vinyl group, isocyanate, and epoxy groups, and radical generators. Carbon fiber precursor adheres 0.1-5 wt.% of the above oily soln., heat-treated at 200-300.degree. in air, and then carbonized at 300-3000.degree. in inert atm. to produce carbon fibers. Thus, polyacrylonitrile fibers were immersed in polyethylene glycol diglycidyl ether soln. and then heat treated to provide carbon fibers.

ST polyoxyethylene diglycidyl ether polyacrylonitrile carbon fiber

IT Acrylic fibers, preparation  
RL: CPS (Chemical process); IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); PREP (Preparation); PROC (Process)  
(oily soln. for carbon fiber precursor and carbon fiber prodn.)

IT Polyoxyalkylenes, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(oily soln. for carbon fiber precursor and carbon fiber prodn.)

IT Carbon fibers, processes  
RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); PROC (Process)  
(polyacrylonitrile-based; oily soln. for carbon fiber precursor and carbon fiber prodn.)

IT Polysiloxanes, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(polyether-; oily soln. for carbon fiber precursor and carbon fiber prodn.)

IT Polyethers, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(siloxane-; oily soln. for carbon fiber precursor and carbon fiber prodn.)

prodn.)  
 IT 26570-48-9, Blemmer ADE 600  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (Blemmer ADE 150, Blemmer ADE 400; oily soln. for carbon fiber precursor and carbon fiber prodn.)  
 IT 25852-47-5, Blemmer PDE 200 58782-18-6, Epolite 400E 99734-09-5  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (oily soln. for carbon fiber precursor and carbon fiber prodn.)  
 IT 94-36-0, Benzoyl peroxide, uses 25322-68-3D, acetyl-terminated  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (radical generator; oily soln. for carbon fiber precursor and carbon fiber prodn.)

REFERENCE 5

AN 143:307858 CA  
 TI Manufacture of mold-release films for aqueous ceramic slurry coating process and the mold-release films therefrom  
 IN Hatta, Akio  
 PA Takemoto Oil and Fat Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 22 pp.  
 CODEN: JKXXAF

DT Patent  
 LA Japanese  
 IC ICM C08J007-04  
 ICS B05D005-00; B05D007-24; B32B027-00; C09D005-00; C09D183-06;  
 C09D183-10; C09D201-00; C08L101-00

CC 42-13 (Coatings, Inks, and Related Products)  
 Section cross-reference(s): 57

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2005255870	A2	20050922	JP 2004-70284	20040312
PRAI	JP 2004-70284		20040312		

AB Title films are prepd. by applying polymer film surfaces with 0.01-0.5 g/m2 (solid content) aq. resin solns. contg. crosslinked organopolysiloxanes consisting of R1b(OH)cSiOa/2 units (A1) 80-99, XeR2f(OH)gSiOd/2 units (A2) 0.5-15, and (Y - Z)iR3j(OH)kSiOh/2 units (A3) 0.5-5 mol% with 1-75% Y component at [R1-R3 = C1-6 alkyl or Ph; X = nonradical polymerizable org. group or epoxy-contg. org. group; Y = vinyl polymer block; Z = Si- and Y-connecting divalent org. group; a, d, h = 1-3 integer; b, e, i = 1 or 2; c, g, k = 0-2 integer; f, j = 0 or 1, with (a + b + c) = 4, (d + e + f + g) = 4, (h + i + j + k) = 4]. A polyester film was coated with an aq. soln. contg. 30% Nikalac MX 035 and 70% polysiloxanes (prepd. from octamethylcyclotetrasiloxane, 3-glycidoxypropyltrimethoxysilane, 3-methacryloxypropyltrimethoxysilane, Et acrylate, Me methacrylate, and glycidyl methacrylate; 90:7:3 A1/A2/A3 units with 50% acrylic polymer block) to form a spot-free uniform film resulting good wetting ability to aq. ceramic slurry and the ceramic layer peeling strength of <5 g/100 mm.

ST acrylic polysiloxane mold release film aq ceramic slurry process; ceramic layer wettability acrylic polysiloxane mold release film

IT Alkyd resins  
 RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)  
 (Watersol S 123, in solns. for mold-release film formation; manif. of acrylic grafted polysiloxane-based mold-release films for aq. ceramic slurry coating process)

IT Polysiloxanes, uses  
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (acrylic, graft; manif. of acrylic grafted polysiloxane-based mold-release films for aq. ceramic slurry coating process)

IT Slurries  
 (ceramic, process for coating of, mold-release films for; manif. of acrylic grafted polysiloxane-based mold-release films for aq. ceramic slurry coating process)

IT Acrylic polymers, uses  
 Aminoplasts  
 Epoxy resins, uses  
 RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)

(in solns. for mold-release film formation; manuf. of acrylic grafted polysiloxane-based mold-release films for aq. ceramic slurry coating process)

IT Parting materials  
(mold-release agents; manuf. of acrylic grafted polysiloxane-based mold-release films for aq. ceramic slurry coating process)

IT Ceramics  
(slurries, process for coating of, mold-release films for; manuf. of acrylic grafted polysiloxane-based mold-release films for aq. ceramic slurry coating process)

IT 9003-08-1, Nikalac MX 035  
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)  
(Nikalac MS 17, Nikalac MX 035 and Cymel 303, in solns. for mold-release film formation; manuf. of acrylic grafted polysiloxane-based mold-release films for aq. ceramic slurry coating process)

IT 58782-18-6, Denacol EX 850  
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)  
(Watersol S 123; manuf. of acrylic grafted polysiloxane-based mold-release films for aq. ceramic slurry coating process)

IT 18191-00-9, Sumitex NS 11 150139-20-1, Watersol S 751  
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)  
(in solns. for mold-release film formation; manuf. of acrylic grafted polysiloxane-based mold-release films for aq. ceramic slurry coating process)

IT 171609-52-2P, Ethyl acrylate-glycidyl methacrylate-3-glycidoxypropyltrimethoxysilane-octamethylcyclotetrasiloxane-methyl methacrylate-3-(trimethoxysilyl)propyl methacrylate graft copolymer 864861-21-2P 864861-22-3P, Acrylic acid-ethyl acrylate-2-(3,4-epoxycyclohexyl)ethyltrimethoxysilane-octaethylcyclotetrasiloxane-styrene-3-(trimethoxysilyl)propyl methacrylate graft copolymer 864861-24-5P, Acrylic acid-N,N-dimethylacrylamide-ethyl acrylate-hexylphenylsilanediol-3-glycidoxypropyltrimethoxysilane-methyl methacrylate-methylvinylsilanediol-octamethylcyclotetrasiloxane graft copolymer 864861-26-7P, Ethyl acrylate-glycidyl methacrylate-3-glycidoxypropyltrimethoxysilane-octamethylcyclotetrasiloxane-methyl methacrylate-methylvinylsilanediol graft copolymer 864861-27-8P 864861-28-9P, Acrylic acid-ethyl acrylate-2-(3,4-epoxycyclohexyl)ethyltrimethoxysilane-octamethylcyclotetrasiloxane-styrene-methylvinylsilanediol graft copolymer 864861-29-0P, Acrylic acid-N,N-dimethylacrylamide-ethyl acrylate-3-glycidoxypropyltrimethoxysilane-octamethylcyclotetrasiloxane-methyl methacrylate-3-(trimethoxysilyl)propyl methacrylate graft copolymer  
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(manuf. of acrylic grafted polysiloxane-based mold-release films for aq. ceramic slurry coating process)

#### REFERENCE 6

AN 143:307451 CA  
TI Edge barriers comprising liquid absorbent thermoplastics for absorbent articles  
IN Toro, Carlo; Digiacomantonio, Marco; Pompei, Enzo; Salone, Fiorello; Carlucci, Giovanni  
PA The Procter & Gamble Company, USA  
SO Eur. Pat. Appl., 20 pp.  
CODEN: EPXXDW  
DT Patent  
LA English  
IC ICM A61F013-15  
CC 38-3 (Plastics Fabrication and Uses)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1579831	A1	20050928	EP 2004-6923	20040323
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK				
	EP 1579832	A1	20050928	EP 2004-18581	20040805
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				

IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR  
 US 2005215967 A1 20050929 US 2005-87475 20050323  
 WO 2005094748 A1 20051013 WO 2005-US10012 20050323  
 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,  
 CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,  
 GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,  
 LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,  
 NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM,  
 SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW  
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,  
 AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,  
 EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,  
 RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,  
 MR, NE, SN, TD, TG

PRAI EP 2004-6923 20040323

AB Absorbent articles, typically for feminine protection, comprise a  
 topsheet, a backsheet, an absorbent element positioned between the  
 topsheet and the backsheet, .gtoreq.1 fluid acquisition/distribution layer  
 and edge barrier elements comprising a polymeric base material having  
 particles of water-insol. water-swellable absorbent material. Estane  
 T5410 (polyurethane-hydrophilic thermoplastic polymer) 18%, PEG E400 17%,  
 CR00 (adhesive hotmelt) 19%, Aquakeep 10 SH-NF (superabsorbent) 45% and  
 Irgnox B 225 1% were mixed to give a hot-melt adhesive for forming the  
 edge barrier elements.

ST polyurethane rubber sodium polyacrylate hotmelt adhesive

IT Urethane rubber, uses

RL: POF (Polymer in formulation); TEM (Technical or engineered material  
 use); USES (Uses)

(Estane T5410; edge barriers comprising liq. absorbent thermoplastics  
 for absorbent articles)

IT Absorbents

(edge barriers comprising liq. absorbent thermoplastics for absorbent  
 articles)

IT Epoxy resins, uses

RL: MOA (Modifier or additive use); USES (Uses)

(edge barriers comprising liq. absorbent thermoplastics for absorbent  
 articles)

IT Medical goods

(sanitary napkins; edge barriers comprising liq. absorbent  
 thermoplastics for absorbent articles)

IT 9003-04-7, Poly(acrylic acid), sodium salt

RL: POF (Polymer in formulation); TEM (Technical or engineered material  
 use); USES (Uses)

(crosslinked; edge barriers comprising liq. absorbent thermoplastics  
 for absorbent articles.)

IT 85595-35-3, Aqua Keep 10SH 675129-39-2, CR 00

RL: POF (Polymer in formulation); TEM (Technical or engineered material  
 use); USES (Uses)

(edge barriers comprising liq. absorbent thermoplastics for absorbent  
 articles)

IT 58782-18-6, PEGE400

RL: MOA (Modifier or additive use); USES (Uses)

(plasticizer; edge barriers comprising liq. absorbent thermoplastics  
 for absorbent articles)

RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD

- (1) Ahmed, S; US 6534572 B1 2003 CAPLUS
- (2) Decowski, S; US 4718898 A 1988
- (3) Koslow, E; US 6015608 A 2000
- (4) Leptick, S; US 6403857 B1 2002
- (5) McNeil Ppc Inc; EP 1013291 A 2000 CAPLUS
- (6) Petryk, T; US 2004127883 A1 2004
- (7) Procter & Gamble; WO 9734557 A 1997
- (8) Procter & Gamble; WO 03049777 A 2003
- (9) Procter & Gamble; WO 03053314 A 2003

REFERENCE 7

AN 143:238759 CA

TI Multicolor thermal printing materials giving images with high gloss and  
 optical density

IN Tsurumi, Mitsuyuki

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 52 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese  
IC ICM B41M005-26  
CC 74-10 (Radiation Chemistry, Photochemistry, and Photographic and Other  
Reprographic Processes)  
Section cross-reference(s): 38

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2005231184	A2	20050902	JP 2004-42914	20040219
PRAI	JP 2004-42914		20040219		
AB	The materials, having thermal printing layers on substrates, include .gtoreq.1 layers contg. binders and epoxy compds. except for undercoating layers on the thermal printing layer side.				
ST	thermal printing material binder epoxy resin crosslinking; binder gelatine thermal printing material diazo				
IT	Gelatins, uses RL: TEM (Technical or engineered material use); USES (Uses) (Nitta 750, crosslinked; multicolor thermal printing materials including layers contg. binders and epoxy resins)				
IT	Polyethers, reactions Polyoxyalkylenes, reactions RL: RCT (Reactant); RACT (Reactant or reagent) (epoxy, crosslinking agent; multicolor thermal printing materials including layers contg. binders and epoxy resins)				
IT	Binders Crosslinking agents Thermal printing materials (multicolor thermal printing materials including layers contg. binders and epoxy resins)				
IT	Epoxy resins, reactions RL: RCT (Reactant); RACT (Reactant or reagent) (polyether-, crosslinking agent; multicolor thermal printing materials including layers contg. binders and epoxy resins)				
IT	Epoxy resins, reactions RL: RCT (Reactant); RACT (Reactant or reagent) (polyoxyalkylene-, crosslinking agent; multicolor thermal printing materials including layers contg. binders and epoxy resins)				
IT	58782-18-6 RL: RCT (Reactant); RACT (Reactant or reagent) (Denacol EX 832, Denacol EX 861, crosslinking agent; multicolor thermal printing materials including layers contg. binders and epoxy resins)				
IT	184348-36-5 557104-88-8 RL: TEM (Technical or engineered material use); USES (Uses) (coupler; multicolor thermal printing materials including layers contg. binders and epoxy resins)				
IT	29317-04-2, Denacol EX 811 54140-67-9, Denacol EX 145 RL: RCT (Reactant); RACT (Reactant or reagent) (crosslinking agent; multicolor thermal printing materials including layers contg. binders and epoxy resins)				
IT	67928-21-6 159526-16-6 473910-87-1 RL: TEM (Technical or engineered material use); USES (Uses) (diazonium compd.; multicolor thermal printing materials including layers contg. binders and epoxy resins)				

REFERENCE 8

AN 143:194744 CA  
TI Thermoplastic elastomer compositions with good melt fluidity, heat,  
weather, chemical, and wear resistance, adhesion, and flexibility for  
molded articles  
IN Taniguchi, Akio; Chiba, Takeshi  
PA Kaneka Corporation, Japan  
SO PCT Int. Appl., 57 pp.  
CODEN: PIXXD2  
DT Patent  
LA Japanese  
IC ICM C08G059-42  
ICS B29C041-18; B60R013-02; B29K021-00; B29L031-58  
CC 37-6 (Plastics Manufacture and Processing)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005073270	A1	20050811	WO 2005-JP824	20050124
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRAI	JP 2004-23898		20040130		
AB	Title compns. comprises (A) an acrylic block copolymer composed of a methacrylic polymer block and an acrylic polymer block and (B) a compd. having .gtoreq.11.1 functional groups, wherein .gtoreq.1 of the methacrylic polymer block and acrylic polymer block has a functional group. Thus, 1664 g Bu acrylate was polymd. in the presence of copper bromide, di-Et 2,5-dibromoadipate, and pentamethyldiethylenetriamine, tert-Bu methacrylate 82.8, Me methacrylate 927, Bu acrylate 202, copper chloride 9.4, pentamethyldiethylenetriamine 1.98 g were added therein when the polymn. conversion was reached 94.6% and polymd. to give a block copolymer with Mn 72,200 and polydispersity 1.42, 45 g of which was mixed with 0.09 g Iranox 1010 and kneaded at 240.degree. for 20 min, 100 parts of the resulting acid anhydride and carboxy group-contg. block copolymer was mixed with Epikote 828 10, carbon black 0.5, and Irganox 1010 0.3 parts, kneaded, and heat-pressed at 200.degree. to give a test piece with good ethanol, oil, and heat resistance, adhesion to polyurethanes, moldability, insolubles content 0% before molding and 64% after molding.				
ST	thermoplastic elastomer compn melt fluidity adhesion; heat weather chem wear resistance molded article; butyl acrylate butyl methacrylate methyl methacrylate block copolymer cyclization; block copolymer Epikote compn				
IT	Heat-resistant materials				
	(abrasion-resistant; thermoplastic elastomer compns. with good melt fluidity, heat, weather, chem., and wear resistance, adhesion, and flexibility for molded articles)				
IT	Polyoxyalkylenes, preparation				
	RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)				
	(acrylic; thermoplastic elastomer compns. with good melt fluidity, heat, weather, chem., and wear resistance, adhesion, and flexibility for molded articles)				
IT	Acrylic polymers, uses				
	RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)				
	(block; thermoplastic elastomer compns. with good melt fluidity, heat, weather, chem., and wear resistance, adhesion, and flexibility for molded articles)				
IT	Heat-resistant materials				
	(chem. resistant; thermoplastic elastomer compns. with good melt fluidity, heat, weather, chem., and wear resistance, adhesion, and flexibility for molded articles)				
IT	Polyoxyalkylenes, uses				
	RL: MOA (Modifier or additive use); USES (Uses)				
	(epoxy; thermoplastic elastomer compns. with good melt fluidity, heat, weather, chem., and wear resistance, adhesion, and flexibility for molded articles)				
IT	Abrasion-resistant materials				
	Chemically resistant materials				
	(heat-resistant; thermoplastic elastomer compns. with good melt fluidity, heat, weather, chem., and wear resistance, adhesion, and flexibility for molded articles)				
IT	Automobiles				
	(interior parts; thermoplastic elastomer compns. with good melt fluidity, heat, weather, chem., and wear resistance, adhesion, and flexibility for molded articles)				
IT	Epoxy resins, uses				

RL: MOA (Modifier or additive use); USES (Uses)  
 (polyoxyalkylene-; thermoplastic elastomer compns. with good melt fluidity, heat, weather, chem., and wear resistance, adhesion, and flexibility for molded articles)

IT Molded plastics, properties  
 RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
 (thermoplastic elastomer compns. with good melt fluidity, heat, weather, chem., and wear resistance, adhesion, and flexibility for molded articles)

IT Thermoplastic rubber  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (thermoplastic elastomer compns. with good melt fluidity, heat, weather, chem., and wear resistance, adhesion, and flexibility for molded articles)

IT 741269-97-6P, Butyl acrylate-tert-butyl methacrylate-methyl methacrylate triblock copolymer 862012-15-5P 862012-16-6P  
 RL: CPS (Chemical process); IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); PREP (Preparation); PROC (Process)  
 (precursor; thermoplastic elastomer compns. with good melt fluidity, heat, weather, chem., and wear resistance, adhesion, and flexibility for molded articles)

IT 112-27-6DP, Triethylene glycol, reaction products with epoxy-contg. acrylic block copolymers 25068-38-6DP, Epikote 828, reaction products with acid anhydride and carboxy group-contg. acrylic block copolymers 58782-18-6DP, Epiol E 400, reaction products with acid anhydride and carboxy group-contg. acrylic block copolymers 741269-97-6DP, Butyl acrylate-tert-butyl methacrylate-methyl methacrylate triblock copolymer, cyclized, reaction products with epoxy compds. 862012-15-5DP, cyclized, reaction products with epoxy compds. 862012-16-6DP, cyclized, reaction products with triethylene glycol 862090-40-2DP, Epiol E 200, reaction products with acid anhydride and carboxy group-contg. acrylic block copolymers  
 RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (thermoplastic elastomer compns. with good melt fluidity, heat, weather, chem., and wear resistance, adhesion, and flexibility for molded articles)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD

- (1) Kaneka Corp; JP 2000169665 A 2000 CAPLUS
- (2) Kaneka Corp; EP 1398353 A1 2002 CAPLUS
- (3) Kaneka Corp; JP 200260449 A 2002
- (4) Kaneka Corp; WO 200292696 A1 2002

# REFERENCE 9

AN 143:8810 CA  
 TI Manufacture of microcapsules with controlled shell thickness  
 IN Kushino, Mitsuo; Kikuta, Teruo; Matsumoto, Makoto  
 PA Nippon Shokubai Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 18 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 IC ICM B01J013-06  
 CC 38-3 (Plastics Fabrication and Uses)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2005131513	A2	20050526	JP 2003-369539	20031029
PRAI	JP 2003-369539		20031029		
AB	In manuf. of the microcapsules by dispersing hydrphobic core substances in aq. media contg. H2O-sol. surfactants and adding H2O-sol. compds. to the media, R1(CH2CH2O)nXR2 (I; R1 = C5-25 aliph. or arom. hydrophobic group; R2 = 300-100,000-Mw polyamine or polycarboxylic acid group; n = 3-85; X = direct link, group derived from amino-, imino-, and/or carboxy-reactive group) are used as the H2O-sol. surfactants, compds. having epoxy or episulfide group are used as the H2O-sol. compds., and the shells are formed by reaction between I and the H2O-sol. compds. Thus, 14.5 g polyethylenimine (Epomin SP 006) was treated with 97.2 g of 25% aq. lauryl polyoxyethylene glycidyl ester (sic) in H2O to give a 25% solid dispersant				

(A1). Then, an aq. soln. contg. 10 g polyglycerol polyglycidyl ether (Denacol EX 521) was added dropwise to an aq. suspension of hydrophobic blue dye contg. 40 g A1, mixed with Na diethyldithiocarbamate trihydrate, kept at 30.degree. for 2 h, aged at 70.degree., and cooled to give a microcapsule dispersion showing particle size 65.0 .mu.m, shell thickness 3.12 .mu.m, and good capsule strength.

ST polyoxyethylene polyethylenimine surfactant epoxide microcapsule formation  
IT Polyoxyalkylenes, preparation  
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)  
(acrylic, graft, reactive dispersant; manuf. of microcapsules with controlled shell thickness)

IT Polyoxyalkylenes, uses  
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(acrylic-epoxy; manuf. of microcapsules with controlled shell thickness)

IT Epoxy resins, uses  
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(acrylic-polyoxyalkylene-; manuf. of microcapsules with controlled shell thickness)

IT Polyoxyalkylenes, uses  
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(epoxy-polyamine-; manuf. of microcapsules with controlled shell thickness)

IT Polyamines  
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(epoxy-polyoxyalkylene-; manuf. of microcapsules with controlled shell thickness)

IT Microcapsules  
(manuf. of microcapsules with controlled shell thickness)

IT Polyoxyalkylenes, preparation  
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)  
(polyamine-, graft, reactive dispersant; manuf. of microcapsules with controlled shell thickness)

IT Epoxy resins, uses  
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(polyamine-polyoxyalkylene-; manuf. of microcapsules with controlled shell thickness)

IT Polyamines  
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)  
(polyoxyalkylene-, graft, reactive dispersant; manuf. of microcapsules with controlled shell thickness)

IT Dispersing agents  
(reactive; manuf. of microcapsules with controlled shell thickness)

IT 71228-86-9DP, Denacol 614B, reaction products with polyoxyalkylene-contg. polyamines or polycarboxylic acids  
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(Denacol 614B; manuf. of microcapsules with controlled shell thickness)

IT 9002-98-6DP, reaction products with lauryl or Ph polyoxyethylene glycidyl ether and epoxides  
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(Epomin SP 006, Epomin SP 018; manuf. of microcapsules with controlled shell thickness)

IT 197646-52-9P, Acrylic acid-ethylene oxide graft copolymer phenyl ether  
851952-56-2P, Aziridine-oxirane graft copolymer lauryl ether  
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)  
(comprised of actual and assumed monomers, reactive dispersant; manuf. of microcapsules with controlled shell thickness)

IT 9003-01-4DP, Aqualic HL 415, reaction products with Ph polyoxyethylene glycidyl ether and epoxides 39409-92-2DP, Denacol EX 920, reaction products with polyoxyalkylene-contg. polyamines or polycarboxylic acids 54140-67-9DP, Polyethylene glycol phenyl glycidyl ether, reaction products

with poly(acrylic acid) and epoxides 58782-18-6DP, Denacol EX 841, reaction products with polyoxyalkylene-contg. polyamines or polycarboxylic acids 86630-59-3DP, Polyethylene glycol glycidyl lauryl ether, reaction products with polyethylenimine and epoxides 121630-71-5DP, Denacol EX 521, reaction products with polyoxyalkylene-contg. polyamines or polycarboxylic acids

RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(manuf. of microcapsules with controlled shell thickness)

# REFERENCE 10

AN 142:483707 CA  
TI Recording sheet for image recording with good resistance to curling and cockling and method of recording  
IN Ogino, Takashi; Hosoi, Kiyoshi; Koga, Chizuru; Matsuda, Tsukasa  
PA Fuji Xerox Co., Ltd., Japan  
SO U.S. Pat. Appl. Publ., 26 pp.  
CODEN: USXXCO

DT Patent  
LA English  
IC ICM B41J002-01  
NCL 347105000  
CC 43-7 (Cellulose, Lignin, Paper, and Other Wood Products)  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	US 2005104947	A1	20050519	US 2004-971788	20041025
	JP 2005171472	A2	20050630	JP 2004-206848	20040714
PRAI	JP 2003-386591		20031117		
	JP 2004-206848		20040714		

AB The recording sheet comprises a cellulose pulp, and has a water retention value C of 50-100% and a wet tensile strength residual ratio R in transverse direction of 5-20%, where C and R are the products of  $[(A-B)/B] \times 100$  and of  $(Sw/S) \times 100$ , resp., provided that A represents a wt. (g) of the sheet in wet state after the sheet is subjected to centrifugal dehydration, B represents an abs. dry wt. (g) of the sheet, Sw represents a wet tensile strength (kN/m) of the sheet and S represents a tensile strength (kN/m) of the sheet in dry state. The above properties can be attained through controlling the role of H bonds in paper, e.g., through selective sizing for enhancing the moisture independence.

ST curling cockling resistance recording paper manuf

IT Coating materials

Electrophotographic paper  
Sizes (agents)

(manuf. of paper for image recording with good resistance to curling and cockling and method of recording)

IT Polyesters, uses

Polyurethanes, uses

RL: TEM (Technical or engineered material use); USES (Uses)

(manuf. of paper for image recording with good resistance to curling and cockling and method of recording)

IT Surfactants

(nonionic; manuf. of paper for image recording with good resistance to curling and cockling and method of recording)

IT Ink-jet recording sheets

(paper; manuf. of paper for image recording with good resistance to curling and cockling and method of recording)

IT Paper

(printing, ink-jet; manuf. of paper for image recording with good resistance to curling and cockling and method of recording)

IT Paper

(printing; manuf. of paper for image recording with good resistance to curling and cockling and method of recording)

IT 22829-17-0, Ammonium zirconium carbonate

RL: TEM (Technical or engineered material use); USES (Uses)

(Caltabond; manuf. of paper for image recording with good resistance to curling and cockling and method of recording)

IT 124671-41-6, Fibran 81

RL: TEM (Technical or engineered material use); USES (Uses)

(internal size; manuf. of paper for image recording with good resistance to curling and cockling and method of recording)

IT 9005-25-8D, Starch, oxidized 9014-85-1D, Surfynol 440, nonionic  
surfactant 58782-18-6D, Epiol E 1000, oxidized 82200-41-7, Vylonal MD  
1200 140841-73-2, Epiol BE 200 288073-11-0, Carbodilite V 02L2  
851959-11-0, Emalex GMS-B 851959-14-3, Emalex SPIS 100 851959-17-6,  
Emalex RWL 150 851959-46-1, Resamine W 100  
RL: TEM (Technical or engineered material use); USES (Uses)  
(manuf. of paper for image recording with good resistance to curling  
and cockling and method of recording)  
IT 9002-89-5, PVA 102 100359-21-5, Ace A  
RL: TEM (Technical or engineered material use); USES (Uses)  
(surface size; manuf. of paper for image recording with good resistance  
to curling and cockling and method of recording)

=> s mh-7210  
377 MH  
14 MHS  
391 MH  
(MH OR MHS)  
193 7210  
L2 0 MH-7210  
(MH(W) 7210)

=> s sd-101  
1339 SD  
50 SDS  
1389 SD  
(SD OR SDS)  
24562 101  
L3 3 SD-101  
(SD(W) 101)

=> d all 1-3

L3 ANSWER 1 OF 3 REGISTRY COPYRIGHT 2006 ACS on STN  
RN 203460-65-5 REGISTRY  
ED Entered STN: 01 Apr 1998  
CN \*\*\*SD 101 (9CI)\*\*\* (CA INDEX NAME)  
ENTE An acrylic Latex (Sanyo Chemical Co.)  
MF Unspecified  
CI PMS, MAN  
PCT Manual registration  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL  
DT.CA CAplus document type: Patent  
RL.P Roles from patents: USES (Uses)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
3 REFERENCES IN FILE CA (1907 TO DATE)  
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

AN 139:330083 CA  
TI Multilayer mirror for organic electroluminescent device and its production  
method of luminous device  
IN Lu, Tung-kuei; Wang, Wei-hsiang  
PA Laite Science and Technology Co., Ltd., Taiwan  
SO Jpn. Kokai Tokkyo Koho, 5 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese  
IC ICM H05B033-10  
ICS H05B033-02; H05B033-14; H05B033-22; H05B033-24  
CC 73-11 (Optical, Electron, and Mass Spectroscopy and Other Related  
Properties)  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2003297571	A2	20031017	JP 2003-89737	20030328
	CN 1484349	A	20040324	CN 2002-142925	20020916
	CN 1484330	A	20040324	CN 2002-142926	20020916

DE 10310341 A1 20031023 DE 2003-10310341 20030310  
 NL 1022900 A1 20030930 NL 2003-1022900 20030312  
 PRAI TW 2002-91106448 20020329  
 AB The invention relates to a multilayer mirror, suited for use as a  
 components of a microcavity structure in an org. electroluminescent  
 device, wherein the buffer layer is fabricated between the transparent  
 substrate and the multilayer mirror for enhancing the adhesion.  
 ST multilayer mirror org electroluminescent device  
 IT Optical resonators  
 (microcavity structure; multilayer mirror for org. electroluminescent  
 device of luminous device)  
 IT Coating materials  
 (multilayer mirror for org. electroluminescent device of luminous  
 device)  
 IT Mirrors  
 (multilayer; multilayer mirror for org. electroluminescent device of  
 luminous device)  
 IT Electroluminescent devices  
 (org.; multilayer mirror for org. electroluminescent device of luminous  
 device)  
 IT 203460-65-5, SD 101  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (buffer layer; multilayer mirror for org. electroluminescent device of  
 luminous device)  
 IT 7631-86-9, Silica, uses 12033-89-5, Silicon nitride, uses  
 RL: DEV (Device component use); TEM (Technical or engineered material  
 use); USES (Uses)  
 (multilayer mirror for org. electroluminescent device of luminous  
 device)

# REFERENCE 2

AN 129:21522 CA  
 TI Optical disk with improved durability and its manufacture  
 IN Harada, Mitsuru; Menya, Kazunori; Oobayashi, Takashi  
 PA Matsushita Electric Industrial Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 7 pp..  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 IC ICM G11B007-24  
 ICS B29C065-48; G11B007-26; B29L017-00  
 CC 74-12 (Radiation Chemistry, Photochemistry, and Photographic and Other  
 Reprographic Processes)  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10112072	A2	19980428	JP 1996-266906	19961008
PRAI	JP 1996-266906		19961008		
AB	The title disk consists successively of a 1st substrate, a 1st recording layer, an interlayer, a silicone adhesive layer, an interlayer, a 2nd recording layer, and a 2nd substrate. The disk shows improved durability at tropical conditions.				
ST	optical disk silicone adhesive layer; compact disk silicone adhesive layer				
IT	Polysiloxanes, uses RL: DEV (Device component use); USES (Uses) (KE 1820, NWV 37, Three Bond 3165; optical disk with improved durability)				
IT	Optical ROM disks Optical disks (optical disk with improved durability)				
IT	144046-69-5, Daicure Clear SD 17 203460-65-5, SD 101 RL: DEV (Device component use); USES (Uses) (optical disk with improved durability)				

# REFERENCE 3

AN 128:198649 CA  
 TI Thermal recording body and production method thereof  
 IN Wakamatsu, Kiichiro  
 PA Mitsubishi Paper Mills Limited, Japan  
 SO PCT Int. Appl., 27 pp.

CODEN: PIXXD2  
DT Patent  
LA Japanese  
IC ICM B41M005-30  
ICS B41M005-40  
CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other  
Reprographic Processes)  
Section cross-reference(s): 39

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9806589	A1	19980219	WO 1997-JP2761	19970807
	W: DE, JP, US				
	DE 19780794	T	19990311	DE 1997-19780794	19970807
	DE 19780794	C2	20010613		
	JP 3565564	B2	20040915	JP 1997-540750	19970807
	US 6071851	A	20000606	US 1998-43150	19980313
PRAI	JP 1996-209654	19960808			
	WO 1997-JP2761	19970807			

AB A thermal recording body has high sensitivity and high whiteness. In a thermal recording body including an intermediate layer disposed between a support and a recording layer, a high sensitivity thermal recording body can be produced by using a latex having a heat-sensitive gelling property as a bonding agent of the intermediate layer and setting the pH value of a soln. of the intermediate layer at 7.0 or more and the liq. temp. at the time of adjustment and prodn. at not higher than 20.degree. of the gelling temp. A thermal recording body having high whiteness and extremely high printability can be obtained by adding a non-crosslinking type acrylic alk. tackifier to the coating soln. of the intermediate layer.

ST thermal recording intermediate layer; acrylic alk tackifier thermal recording

IT Thermal printing

Thermographic copying

(acrylic alk. tackifier in intermediate layer of thermal recording body)

IT Acrylic polymers, uses

RL: DEV (Device component use); USES (Uses)

(latex;tackifier; acrylic alk. tackifier in intermediate layer of thermal recording body)

IT 170427-79-9, SN thickener 920 174593-64-7, SN thickener 922 203460-65-5, SD 101

RL: DEV (Device component use); USES (Uses)

(tackifier; acrylic alk. tackifier in intermediate layer of thermal recording body)

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD

(1) Mitsubishi Paper Mills Ltd; JP 06-340174 A 1994

(2) Ricoh Co Ltd; JP 05-139035 A 1993 CAPLUS

L3 ANSWER 2 OF 3 REGISTRY COPYRIGHT 2006 ACS on STN

RN 66770-70-5 REGISTRY

ED Entered STN: 16 Nov 1984

CN \*\*\*Rhodopas SD 101 (9CI)\*\*\* (CA INDEX NAME)

ENTE An acrylate-styrene copolymer latex

MF Unspecified

CI PMS, MAN

PCT Manual registration

LC STN Files: CA, CAPLUS

DT.CA Caplus document type: Journal

RL.NP Roles from non-patents: USES (Uses)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

AN 89:112511 CA

TI The problems posed by the use of glossy paints based on aqueous dispersions of synthetic polymers

AU Sebban, Guy

CS Cent. Rech. Aubervilliers, Rhone-Poulenc Ind., Aubervilliers, Fr.

SO Double Liaison - Chimie des Peintures (1976), 23(248), 153-60

CODEN: DLCPDY; ISSN: 0291-8412

DT Journal  
LA French  
CC 42-7 (Coatings, Inks, and Related Products)  
AB The influence of formulation parameters on the properties of glossy paints based on aq. dispersions is discussed. Pigment vol. concn., dispersing agent, solvent, particle size and min. film-forming temp. of the binder affect the gloss in aq. latex paints. Two glossy latex paint formulations based on Rhodopas AV 501 (vinyl acetate-vinyl versatate copolymer) [66770-71-6] and Rhodopas SD 101 [66770-70-5] (acrylate-styrene copolymer) are presented.  
ST gloss aq latex paint; vinyl compd polymer latex paint; styrene acrylate latex paint  
IT Coating materials  
(aq. latex paints, formulation of, with high gloss)  
IT 79-10-7D, esters, polymers with styrene 66770-70-5 66770-71-6  
RL: TEM (Technical or engineered material use); USES (Uses)  
(coatings, aq. latex paints, with high gloss)

L3 ANSWER 3 OF 3 REGISTRY COPYRIGHT 2006 ACS on STN

RN 9003-07-0 REGISTRY

ED Entered STN: 16 Nov 1984

CN 1-Propene, homopolymer (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Propene, polymers (8CI)

OTHER NAMES:

CN 001PF

CN 03P10/01

CN 04P10/01

CN 05P10-040

CN 1-Propene polymer

CN 1001A

CN 100GA02

CN 100GA03

CN 105PT

CN 1080F

CN 1100NK

CN 1148TC

CN 1184L

CN 1200FH

CN 120SPW-L

CN 1304F1

CN 13T10A

CN 1501F

CN 150AG3

CN 1640P

CN 1947H

CN 19MN10

CN 1EPP

CN 2000C

CN 2000C (polyolefin)

CN 202E

CN 215H

CN 219D

CN 21E953E866

CN 230M4

CN 243.4A

CN 24MB200

CN 25AT

CN 260LLG202

CN 260LLG302

CN 2K93K

CN 3030BN1

CN 3030FN1

CN 3050BN1

CN 3050MNI

CN 30AT

CN 31S07A

CN 31S3A

CN 31U18A

CN 3289MZ

CN 3355Z

CN 33MW247  
CN 3435RG  
CN 3501F  
CN 3502L  
CN 3522G  
CN 3701T  
CN 4017H  
CN 4048PP  
CN 40AT  
CN 40RL01  
CN 413S  
CN 4200E  
CN 4352E1  
CN 4500J  
CN 4506JP  
CN 4700JG  
CN 4800JG  
CN 500GA20  
CN 50RXC7  
CN 51S07A  
CN 550P  
CN 5824S  
CN 598A  
CN 5A08  
CN 5A15  
CN 5A64  
CN 5B04Z  
CN 5C08  
CN 5C13  
CN 5C39F  
CN 5C64  
CN 610A  
CN 6216E  
CN 6301F  
CN 6323PM  
CN 6462HR  
CN 6631FB  
CN 701WC  
CN 704NP  
CN 7064wf1  
CN 70SPW-L  
CN 744NP  
CN 7C49  
CN 8004ZR  
CN 8080GW  
CN 8100B  
CN 8755HK  
CN 90SPW-L  
CN A 1600  
CN A 1600 (polyolefin)  
CN A 2627-101  
CN A 5012  
CN A-Fax 900CP  
CN AA 25  
CN Accpro 10-9433  
CN Accpro 10-9934  
CN Accpro 9965  
CN Accpro ET  
CN Acctuf 3234X  
CN Acctuf 3434  
CN Accurel 1E-PP  
CN Accurel 2E-HF-PP  
CN Accurel 2E-PP  
CN Accurel 2E0.2  
CN Accurel EG 100  
CN Accurel EP 100  
CN Accurel EP 100SR  
CN Accurel MP 100  
CN Accurel MP 1000  
CN Accurel MP 1002  
CN Accurel MP 1003  
CN Accurel MP 1004

CN Accurel PP  
CN Accurel PP 1E  
CN Accurel PP 2E  
CN Accurel PP 2E-HF  
CN Accurel PP-V 8/2  
CN Ace Polypro E 401ET  
CN Ace Polypro J 205  
CN Ace Polypro M 1600  
CN Ace Polypro PY 02  
CN Achieve 1635  
CN Achieve 1635E1  
CN Achieve 3844  
CN Adiox  
CN Adstif 680ADXP  
CN Adstif 699ADXP  
CN Adstif V 2400G  
CN Adstiff 770ADXP  
CN AET 75B523  
CN AETTM 523  
CN AF-PP 150  
CN AG 3521  
CN AH 661V  
CN Alfon  
CN Allomer U  
CN Alphan  
CN Alphan CE 01  
CN Alphan CH 11  
CN Alphan CHW 01  
CN Alphan CN 01  
CN Alphan GPF 01  
CN Alphan GSF 01  
CN Alphan H 101  
CN Alphan MA 410  
CN Alphan MS 231  
CN Alphan NH 101  
CN Alphan NHW 101  
CN Alphan PD 001  
CN Alphan PF 001  
CN Alphan PM 001  
CN Alphan PP 40PU002  
CN Alphan PP 50  
CN Alphan PY 001  
CN Alphan PY 001-20  
CN Alphan PY 101  
CN Alphan PY 202-20  
CN Alphan RL 01  
CN \*\*\*Alphan SD 101\*\*\*  
CN Alphan SF 001  
CN Alphan SG 001  
CN Alphan SO 101  
CN Alphan SS 121  
CN Alphan SS 221  
CN Alphan SY 001  
CN Alphan SY 101  
CN Alphan SY 201  
CN Alphan UHWZ 001  
CN AM 3  
CN Amberlite RF 14  
CN Amoco 10-1046  
CN Amoco 10-5219  
CN Amoco 10-6016  
CN Amoco 10-6352  
CN Amoco 10-7944  
CN Amoco 10-8178  
CN Amoco 1010  
CN Amoco 1011  
CN Amoco 1046  
CN Amoco 1088  
CN Amoco 109961  
CN Amoco 29-5240  
CN Amoco 50112  
CN Amoco 62-3463

CN Amoco 6371  
CN Amoco 6400P  
CN Amoco 6490  
CN Amoco 7200P  
CN Amoco 7239  
CN Amoco 7634  
CN Amoco 7644  
CN Amoco 9009  
CN Amoco 9012  
CN Amoco 9013  
CN Amoco 9119  
CN Ampacet 110617  
CN Ampacet LP 20882  
CN Ampol C 20  
CN Ampol C 60  
CN Amtuff 103463  
CN APP  
CN APP-B 6A  
CN APP-D  
CN APP-M 5K  
CN APP-S 660-220  
CN APP-S-H 500  
CN Appryl 3020BNI  
CN Appryl 3020GN23  
CN Appryl 3020SN3  
CN Appryl 3030  
CN Appryl 3030FN1  
CN Appryl 3030P  
CN Appryl 3050BN1  
CN Appryl 3120  
CN Appryl 3120MN1  
CN Appryl 3130  
CN Appryl 3131MU7  
CN Appryl 3400MA1  
CN Appryl HVL 0230  
CN Appryl HX 0320  
CN Appryl MVI 3  
CN Appryl PP 3050NMI  
CN Aptra AP 3  
CN Aquacer 593  
CN Arco 106-4  
CN Arco 8600  
CN Arco 8670  
CN Aristech CP 350J  
CN Aristech D 008M  
CN Aristech D 044L  
CN Aristech D 080A2  
CN Aristech D 115  
CN Aristech D 115A  
CN Aristech FP 200F  
CN Armlen PP-SV 2T  
CN Armlen PP-SV 30  
CN Aroma TC 160  
CN Aroma U  
CN Arterit C 600  
CN AS 640V  
CN AS 821  
CN Asahitak TD 3-148  
CN Asahitak TD 3-176  
CN AT 36  
CN Atactic polypropylene  
CN ATF 133  
CN Atofina 3181  
CN Atofina 3289MZ  
CN Atofina 3365  
CN Atofina 3429  
CN Atofina 3480Z  
CN Atofina 3622  
CN Avisun  
CN Avisun 101  
CN Avisun 1014  
CN Avisun 12-270A

CN Avisun 12-407A  
CN Avisun GP  
CN AW 630V  
CN Axia AX 201A  
CN Axon 6178  
CN AZ 161C1  
CN Azdel  
CN Azdel P 100  
CN Azdel P 1037LK  
CN Azdel P 1137BK  
CN Azdel PD 1-3010  
CN Azdel PM 10300  
CN Azdel PM 10400  
CN Azdel Superlite  
CN B 101H  
CN B 101P  
CN B 101PT  
CN B 101W  
CN B 101WA  
CN B 101WAT  
CN B 150K  
CN B 1530  
CN B 1530 (polyolefin)  
CN B 200  
CN B 200P  
CN B 229T  
CN B 246ZT  
CN B 2700  
CN B 278  
CN B 3050  
CN B 380J  
CN B 40  
CN B 40 (polypropylene)  
CN B 503  
CN B 523  
CN B 901T  
CN BA 110CF  
CN Balen  
CN Bapolan 4063N  
CN Barial PP 200  
CN Bariera PGS 25  
CN Basell HP 400N  
CN Basell PDC 1274  
CN BASF 1325  
CN BC 03D  
CN BC 056C  
CN \*\*\*BC 06\*\*\*  
CN BC 145M  
CN BC 2  
CN BC 2 (polyolefin)  
CN BC 245MO  
CN BC 3AW  
CN BC 3LS  
CN BC 4Q  
CN BCA 150  
CN BCB 95  
CN BCO 3BSW  
CN BD 310MO  
CN BD 801F  
CN BE 182B  
CN BE 50  
CN BE 677MO  
CN BE-C 50  
CN Beablock  
CN Berwick 500  
CN BG-G  
CN Bicolene P  
CN Bicor 240B  
CN Bicor 278T  
CN Bicor 306IG  
CN Bicor 310AB  
CN Bicor 400S

CN Bicor 900P550S  
CN Bicor 98PXS  
CN Bicor CSR 2  
CN Bicor MB 400  
CN Bio Stage  
CN Bio Stage RK 04Z098  
CN Bistalon  
CN BJ 309V  
CN BJ 3H-MF  
CN BJ 501  
CN BJ 5H-MF  
CN BJ 6H-MFS  
CN BJ 730  
CN BJHH 2283  
CN BJHH-P  
CN BJHH-US  
CN BJHH-US(N)  
CN BJHSA 20  
CN BK 1604102  
CN BL 03B  
CN BO 2535  
CN BO-S 645  
CN BO-YT 42  
CN Bodon  
CN Boltaron 5500/5501  
CN Boltaron Pro 5500  
CN BOPP 157GD02  
CN Borclean HB 300BF  
CN Bormod HC 905TF  
CN BP 10-6014  
CN BP 101  
CN BP 101 (polyolefin)  
CN BP 105  
CN BP 115  
CN BP 6015PP  
CN BP 6219  
CN BP 7200  
CN Bras-Fax 6331  
CN BT 2006  
CN Buplen 6531  
CN Buplen 7823  
CN BX 02LS  
CN BX 310  
CN BX 310 (polyolefin)  
CN BY 011F  
CN BYE 62  
CN C 1400  
CN C 1400 (polyolefin)  
CN C 140Y  
CN C 1557  
CN C 200  
CN C 200 (polypropylene)  
CN C 234  
CN C 314  
CN C 31PS  
CN C 322  
CN C 418B  
CN C 4220  
CN C 4420  
CN C 50E  
CN C 520XKD  
CN C 60  
CN C 60 (polymer)  
CN C 8010N  
CN Cabelec 3140  
CN Cabelec 736  
CN CAP 2880  
CN CAP 355Y  
CN CAP Sheet  
CN Capilene E 50E  
CN Capilene G 86E  
CN Capilene R 40

CN Capilene R 50  
CN Capilene SU 75AV  
CN Capilene T 50E  
CN Caprez DPP  
CN Carlona GMT 67  
CN Carlona H 61  
CN Carlona HY 61  
CN Carlona HY 61/1090/1324  
CN Carlona K 571  
CN Carlona KM 61  
CN Carlona KMT 6100  
CN Carlona P  
CN Carlona P 61  
CN Carlona PM 61 naturel  
CN Carlona PPLZ 074  
CN Catalloy KS 0810P  
CN CC-PP 60  
CN CCU  
CN CD 100  
CN CD 263  
CN CD 316  
CN CD 419  
CN CEC 4412  
CN Celgard 2200  
CN Celgard 2300  
CN Celgard 2400W  
CN Celgard 2402  
CN Celgard 2502  
CN Celgard 3400  
CN Celgard 3401  
CN Celgard 3500  
CN Celgard 3501  
CN Celgard 4400  
CN Celgard 4410  
CN Celgard 4500  
CN Celgard 4510  
CN Celgard 5501  
CN Celgard 5511  
CN Celgard K 273  
CN Celgard K 292  
CN Celgard KKX 2  
CN Cellofilm U 1  
CN Celmar  
CN Celpore 3NW-01  
CN Celpore NW 01  
CN Celpore NW 07  
CN Celpore NW 07H  
CN Celpore NW 11  
CN Celpore NW 9  
CN Celpore W 1  
CN Celstran PP-GF 40  
CN Celstran PP-GF 40-04  
CN Celstran PPG 040-01  
CN Celstran PPG 40  
CN Celstran PPLSG 30-4  
CN Celstran PPLSG 40-4  
CN Celstran PPLSG 50-4  
CN Cenessy C 153-40  
CN Cenessy CPP 146  
CN Cenessy POP  
CN Cenessy WOP-W 2  
CN Ceraflour 430RC836  
CN Ceraflour 914  
CN Ceraflour 915  
CN Ceridust F 3910  
CN Ceridust VP 6071  
CN CF 3001  
CN CF 3013  
CN CF 501  
CN CG 210  
CN CG 730  
CN Chemipearl WP 100

CN Chemipearl WP 250  
CN Chemipearl XEP 100H  
CN Chisso 2038  
CN Chisso 2654  
CN Chisso 5078  
CN Chisso 8377  
CN Chisso K 4017  
CN Chisso Polypro 1014  
CN Chisso Polypro HT 6004  
CN Chisso Polypro K 1016  
CN Chisso Polypro XF 7553  
CN Chisso Polypro XF 9250  
CN CJ 102  
CN CJ 104  
CN CJ 950  
CN CJS 700  
CN CJS 700G  
CN Clysar 50EHC-F  
CN Coathylene PB 0580  
CN Coathylene PF 0548  
CN Coathylene PY 0787F  
CN Colcolor  
CN Correx  
CN Corton PDR 1054/2HS Natural  
CN Corton PDR 1701  
CN Cosden 8670  
CN Cosmoplene FS 3011P  
CN Cosmoplene Y 101  
CN Cotene PP 9800  
CN CP 106  
CN CP 106 (polyolefin)  
CN CP-FG  
CN CP-GHC  
CN CP-RXC 18  
CN CP-S  
CN CPP 25S  
CN CPPor 4540  
CN CPSC  
CN CR 50  
CN CR 50 (polyolefin)  
CN Crownfilm 112  
CN CS 3230  
CN CT-P 1128  
CN CTS 700  
CN Curphane 4640  
CN Cuyolen 1102  
CN Cuyolen 1102HX  
CN D 008M  
CN D 015C2  
CN D 022D  
CN D 038S  
CN D 040W6  
CN D 101  
CN D 101WB  
CN D 137  
CN D 151  
CN D 151 (film)  
CN D 501  
CN Daiapolymer 4800JG  
CN Daiapolymer MA 2A  
CN Daiapolymer MA 3  
CN Daicel PB 2N1  
CN Dampla-Ace  
CN Danplate  
CN Danpra S  
CN Danpureto  
CN Daplen 708C/D30  
CN Daplen AD  
CN Daplen AD 10 Natur  
CN Daplen AD 50  
CN Daplen APP  
CN Daplen APP 17

CN Daplen AS 50  
CN Daplen AT 10K92  
CN Daplen ATK 92  
CN Daplen CF 501  
CN Daplen CS 10  
CN Daplen CS 100  
CN Daplen D 2XMOD  
CN Daplen DM 55U  
CN Daplen DSC 1011  
CN Daplen E 1166  
CN Daplen E 260  
CN Daplen FM 553NA  
CN Daplen FS 65T40  
CN Daplen KF 201  
CN Daplen KF 201SB  
CN Daplen KF 20SB  
CN Daplen KF 211SB  
CN Daplen KFC 2004SB  
CN Daplen KFC 201  
CN Daplen KS 10S  
CN Daplen PT 551  
CN Daplen QT 551  
CN Daplen RS 103  
CN Daplen TC-F 30  
CN Daplen TC-FSC 65T30  
CN Daplen TC-U 30  
CN Daplen US 10  
CN Daplen US 105A  
CN Daplen XS 80  
CN Daploy HMS 110F  
CN Daploy WB 130HMS  
CN DE 20004GP  
CN Dexon E 117  
CN DF 202K  
CN DG 687  
CN DGF 4400.00  
CN DH 109  
CN Dow 5D98  
CN Drizit  
CN DS 5D45  
CN DS 8620  
CN DSM 1020T  
CN Duon 830  
CN Duraguard  
CN Duraguard 2400  
CN Duraguard 2402  
CN Duraguard 2500  
CN Duraguard 2502  
CN Duraguard 3401  
CN Duraguard 3501  
CN Durro 8938  
CN DV 001PF  
CN DWU  
CN DX 5088  
CN DX 5E66  
CN DX 5E766  
CN Dypro 3275  
CN Dypro 3576  
CN Dypro 8485  
CN Dypro 8619  
CN Dypro 8938  
CN E 100G  
CN E 100GM  
CN E 101MA  
CN E 101P  
CN E 102  
CN E 102D  
CN E 102GP  
CN E 103  
CN E 103 (polymer)  
CN E 105  
CN E 105 (polyolefin)

CN E 105GK  
CN E 111G  
CN E 1130  
CN E 120G5  
CN E 121WA  
CN E 130G  
CN E 150K  
CN E 150K (polyolefin)  
CN E 170GM  
CN E 200  
CN E 200 (polypropylene)  
CN E 2000GV  
CN E 200C  
CN E 200G  
CN E 200GP  
CN E 200H  
CN E 200N  
CN E 200T  
CN E 200X  
CN E 203G  
CN E 203GK  
CN E 203GV  
CN E 239  
CN E 2600  
CN E 300A  
CN E 304G  
CN E 333GV  
CN E 4  
CN E 401ETX  
CN E 409TS  
CN E 43  
CN E 43 (polymer)  
CN E 43N  
CN E 500F  
CN E 5D47  
CN E 620G  
CN E 620G (polyolefin)  
CN E 7000  
CN E 7100  
CN E 7100 (polyolefin)  
CN EA 040T  
CN EA 110  
CN EA 130-1  
CN EA 6A  
CN EA 7  
CN EA 8  
CN EA 9  
CN EA 9A  
CN Eastobond D 7682-109S  
CN Eastobond G 92  
CN Eastobond L 8080-270A  
CN Eastobond M 3  
CN Eastobond M 5  
CN Eastobond M 500S  
CN Eastobond M 5C  
CN Eastobond M 5H  
CN Eastobond M 5W  
CN Eastoflex 1023  
CN Eastoflex P 1010  
CN Eastoflex P 1023  
CN EB 4237  
CN EB 4476  
CN EB-G  
CN EBI 0830  
CN EC 09  
CN EC 98  
CN EC 9B  
CN EC 9EV  
CN Ecolo Sheet N 4096  
CN EF 401  
CN EFL 200  
CN EHPP

CN EL 80F1  
CN El Rexene PP 11S  
CN Elastopreg B 100F30  
CN Elex 358HV200  
CN Elpon  
CN Eltex HL 001  
CN Eltex HL 001PF  
CN Eltex HP 405  
CN Eltex HV 001  
CN Eltex HV 200PF  
CN Eltex HY  
CN Eltex KL 177  
CN Eltex P-HF 100  
CN Eltex P-HL 001PF  
CN Eltex P-HL 011  
CN Eltex P-HL 200P  
CN Eltex P-HL 518  
CN Eltex P-HV 001  
CN Eltex P-HV 001PF  
CN Eltex P-HV 100P  
CN Eltex P-HW 206  
CN Eltex P-KW 276  
CN Eltex P-PV 001P  
CN Eltex P-RP 210  
CN Eltex PHL  
CN Eltex RCW 284  
CN EM 490  
CN Embryon HG 770J  
CN Enjay CD 392  
CN Enjay CD 460  
CN Enjay CD 490  
CN Enjay E 115  
CN Enjay E 117  
CN Enpla  
CN EOD 00-07  
CN EOD 96-36  
CN EOD 9601  
CN EOD 97-06  
CN EOD 97-18  
CN EP 100  
CN EP 2629EB  
CN EP 3T46F  
CN EP 548N  
CN EPA 2  
CN EPB 2  
CN Eperan PP  
CN Eperan PP 45  
CN Eperan PP-LBS 13  
CN EPF 30M  
CN Epolene M 5H  
CN Epolene M 5K  
CN Epolene M 5W  
CN Epolene M 85  
CN Epolene N 15  
CN Epolene N 15M  
CN Epolene N 34P  
CN Eppor EA  
CN EPPOR EA 190  
CN EPPOR EA 480  
CN Equistar 31S3A  
CN Equistar 51S07A  
CN Equistar 51S12A  
CN Equistar FP 800-00  
CN Escon 622  
CN Escon CD 44A  
CN Escon EX 375  
CN Escorene 1304EI  
CN Escorene 3014  
CN Escorene 3145  
CN Escorene 3505G  
CN Escorene 3746  
CN Escorene 3746G

CN Escorene 3860  
CN Escorene 4092  
CN Escorene 4193  
CN Escorene 5012F2  
CN Escorene 5141G  
CN Escorene 5232  
CN Escorene 8224  
CN Escorene 9074MED  
CN Escorene PD 050  
CN Escorene PD 3345-88  
CN Escorene PD 3345E  
CN Escorene PD 3345E5  
CN Escorene PD 3435G  
CN Escorene PD 3495G  
CN Escorene PD 4062E7  
CN Escorene PD 4182E3  
CN Escorene PD 4193  
CN Escorene PD 4222E1  
CN Escorene PD 4323  
CN Escorene PD 4443  
CN Escorene PD 5291  
CN Escorene PP 1159  
CN Escorene PP 1403F  
CN Escorene PP 2032  
CN Escorene PP 292E1  
CN Escorene PP 3445  
CN Escorene PP 3456G  
CN Escorene PP 3495G  
CN Escorene PP 3505G  
CN Escorene PP 4062E7  
CN Escorene PP 4152  
CN Escorene PP 4193  
CN Escorene PP 4292E1  
CN Escorene PP 4352F1  
CN Escorene PP 4403  
CN Escorene PP 5022  
CN Escorene PP 9222F1  
CN Escorene PP 9505  
CN Escorene PP 9524  
CN Escorene XPP 323  
CN Esudassyu PG 6010  
CN ET 20  
CN ET 6000  
CN Eticourt ETM  
CN EUH 75  
CN EX 108  
CN EX 880X3  
CN EXP 127-32-6  
CN EXPP 157  
CN EXPP 170  
CN Extron 3011  
CN Extron 3011PP-GF45  
CN Exxelor PO 1015TA  
CN Exxon 3014  
CN Exxon 3684  
CN Exxon 4612  
CN F 080PP  
CN F 1002  
CN F 1002B  
CN F 1013WH  
CN F 102  
CN F 102WC  
CN F 103  
CN F 103WB  
CN F 103WH  
CN F 107BV  
CN F 107DV  
CN F 1088  
CN F 109  
CN F 109B  
CN F 109BA  
CN F 109BB

CN F 109D  
CN F 109K  
CN F 1188  
CN F 122  
CN F 122 (polymer)  
CN F 122B  
CN F 1300  
CN F 132  
CN F 132 (polyolefin)  
CN F 142Z  
CN F 150J  
CN F 1566  
CN F 180A  
CN F 200GP  
CN F 200S  
CN F 200SP  
CN F 200ST1  
CN F 205SR  
CN F 2062  
CN F 209C  
CN F 229BA  
CN F 25G  
CN F 300S  
CN F 300SP  
CN F 305-12MF  
CN F 30S  
CN F 3122  
CN F 327P  
CN F 350HC  
CN F 3900  
CN F 3900 (polyolefin)  
CN F 3990  
CN F 400  
CN F 400 (polyolefin)  
CN F 400H  
CN F 401  
CN F 4016  
CN F 409B  
CN F 5101A  
CN F 569R  
CN F 600  
CN F 600HC  
CN F 631  
CN F 658D  
CN F 701WC  
CN F 704  
CN F 704NP  
CN F 704NT  
CN F 707V  
CN F 730NV  
CN F 734NP  
CN F 744  
CN F 774M  
CN F 8098  
CN F 812A  
CN F 8298  
CN F 8298A  
CN F 8577  
CN F 9750D  
CN F 975D  
CN FA 112  
CN FA 122  
CN FA 122 (polyolefin)  
CN FA 235-1  
CN FA 3D  
CN FA 410  
CN FA 440  
CN FA 465  
CN FA 520  
CN Fancy Wrap PSH 30  
CN Fankuron EPA 2  
CN FB 3

CN FB 3 (polyolefin)  
CN FB 3C  
CN FB 3GT  
CN FB 3T  
CN FB 99A  
CN FC 240  
CN FC 540  
CN FC 9412  
CN FCMSO  
CN FCZK  
CN FD 141C  
CN FD 30  
CN Ferro NPP 00GC16NA  
CN Ferro TPP 40AC52BK  
CN FF 020T  
CN FF 020Y  
CN FF 038A2  
CN FFF 8175  
CN FG 3DF  
CN FG 3Y  
CN FG 431  
CN FG 5-1  
CN FH 1015  
CN FH 300  
CN FH 3400  
CN FH 3500  
CN FHBK  
CN FHK 2  
CN FHK 20  
CN FHK 2L  
CN Fiberstran G 60/50Nat1  
CN Fina 1071  
CN Fina 3181  
CN Fina 3181X  
CN Fina 3230  
CN Fina 3270  
CN Fina 3272  
CN Fina 3277  
CN Fina 3362U  
CN Fina 3365U  
CN Fina 3371T  
CN Fina 3374X  
CN Fina 3376  
CN Fina 3429  
CN Fina 3445  
CN Fina 3571  
CN Fina 3576  
CN Fina 3622  
CN Fina 3661  
CN Fina 3662  
CN Fina 3761  
CN Fina 3824  
CN Fina 3892  
CN Fina 3900  
CN Fina 3925  
CN Fina 3960  
CN Fina 4060  
CN Fina 4180  
CN Fina 5042  
CN Fina 5042S  
CN Fina 5060  
CN Fina 5060S  
CN Fina 6573  
CN Fina 828  
CN Fina 98035  
CN Fina EOD 97-18  
CN Fina PP 3376  
CN Fina PP 3445  
CN Finacene 98-09  
CN Finapro 7060  
CN Finapro P 3660  
CN Finapro PPh 110112

CN Finapro PPH 7060S  
CN Finapro PPH 9096  
CN Finaprop PP 150  
CN FL 100  
CN FL 25  
CN FL 25HA  
CN FL 25T  
CN FL 60  
CN FL 6315G  
CN FL 7  
CN FL 7 (polyolefin)  
CN FL 8012  
CN FL 8013  
CN FL 80F1  
CN FL 8115  
CN FL 821  
CN Flo-Beads PJ  
CN Flo-Blen B 200  
CN Flo-blen Q  
CN Flo-blen QB 200  
CN Flozwc  
CN FLX 80E4  
CN FM 101  
CN FM 101A  
CN FM 103B  
CN FM 113  
CN FM 121  
CN FM 121A  
CN FM 121B  
CN FM 131  
CN FM 133  
CN FM 201B  
CN FM 201C  
CN FM 202B  
CN FM 3552  
CN FM 414  
CN FM 831B  
CN FO 200H  
CN FO 2186  
CN FO 50F  
CN FOA-BT  
CN Foam Ace PP  
CN FOF 40  
CN FOH-F  
CN FOK  
CN FOK (polyolefin)  
CN FOR  
CN FOR 30  
CN FOR-MP  
CN Fortilene  
CN Fortilene 12  
CN Fortilene 1602  
CN Fortilene 2104  
CN Fortilene 3907  
CN Fortilene 4101  
CN Fortilene 9000  
CN Fortilene 9101  
CN Fortilene 9200  
CN Fortilene 9300  
CN Fortilene 9600  
CN Fortilene HB 1602  
CN Fortilene HB 9200  
CN FOS-BT  
CN FP 230  
CN FP 230 (polyolefin)  
CN FP 300F  
CN FP 80  
CN FPG 80  
CN FPG 95  
CN FPO-W 101  
CN FPO-WL 102  
CN FPO-WL 107

CN FPO-WL 111  
CN FPO-WL 118  
CN FPP-D 1810  
CN FPU 60  
CN FRPP-E 7000  
CN FS 2011  
CN FS 2011C  
CN \*\*\*FS 2011DG\*\*\*  
CN FS 3011  
CN FS 4012  
CN FS 65T20  
CN FS 861  
CN FT 021N  
CN FTA 2530  
CN FTH 4379  
CN Funcster LR 23C  
CN Funcster LR 25Z  
CN FW 163  
CN FW 363A  
CN FX 270  
CN FX 4Q  
CN FY 3VE  
CN FY 4  
CN FY 6  
CN FY 6C  
CN FY 6HA  
CN G 1  
CN G 1 (polyolefin)  
CN G 101  
CN G 86E  
CN Gapex RPP 30EA36HBNA  
CN Garblene  
CN Garlaply  
CN GB 130  
CN GB 130 (polyolefin)  
CN GB 220  
CN GB 230  
CN GE 7100  
CN GE 71200  
CN GF 2APP  
CN GF 60N11  
CN GFL 921  
CN GH 1  
CN GH 1 (polyolefin)  
CN GH-I  
CN GH-I (polyolefin)  
CN GHC  
CN GHC 25  
CN GK 0375  
CN GK 8000  
CN GLC  
CN GM 15M  
CN GM 300B  
CN GM 40PP-RWT  
CN GMT Symalit 40  
CN GMW 213  
CN GND 20  
CN GPCD 398  
CN Grand Polypro B 761QD  
CN Grand Polypro BEBG  
CN Grand Polypro E 111  
CN Grand Polypro E 121WA  
CN Grand Polypro F 103  
CN Grand Polypro F 109BB  
CN Grand Polypro F 109D  
CN Grand Polypro F 122B  
CN Grand Polypro F 133  
CN Grand Polypro F 701WC  
CN Grand Polypro G 101  
CN Grand Polypro J 101  
CN Grand Polypro J 105  
CN Grand Polypro J 105W

CN Grand Polypro J 106W  
CN Grand Polypro J 106WB  
CN Grand Polypro J 300  
CN Grand Polypro J 707  
CN Grand Polypro J 709W  
CN Grand Polypro J 802H  
CN Grand Polypro S 13B  
CN GRPB 221  
CN GSE 111  
CN GSE 18  
CN GW 522  
CN GW 8080  
CN GWE 27  
CN GX 543  
CN GXE 35  
CN GYM 45  
CN GZF 62  
CN H 030SG  
CN H 100EY  
CN H 103  
CN H 103-00  
CN H 1050  
CN H 110MA  
CN H 12054P41  
CN H 150F  
CN H 2000  
CN H 2000 (polyolefin)  
CN H 200NS  
CN H 230W  
CN H 302-09RSB  
CN H 304  
CN H 306  
CN H 32GA  
CN H 337  
CN H 377  
CN H 400  
CN H 400 (polyolefin)  
CN H 430  
CN H 430 (polyolefin)  
CN H 483  
CN H 5000  
CN H 501  
CN H 501N  
CN H 540  
CN H 540 (polyolefin)  
CN H 543  
CN H 603  
CN H 605  
CN H 670  
CN H 700  
CN H 700 (polyolefin)  
CN H 700-12  
CN H 701-12  
CN H 701-20A  
CN H 702-35  
CN H 702-35NA  
CN H 704-04  
CN H 715-12  
CN H 800V  
CN H-TD 045  
CN HA 100E  
CN HA 125J  
CN HA 20  
CN HA 20 (polyolefin)  
CN HA 507MO  
CN HA 507P  
CN HB 121J  
CN HB 1301  
CN HB 1602  
CN HB 300P  
CN HB 9000  
CN HB 9000 (polyolefin)

CN HB 9600  
CN HC 1000  
CN HC 100F  
CN HC 100M  
CN HC 115J  
CN HC 115M  
CN HC 115MO  
CN HC 205P  
CN HC 210P  
CN HC 318BF  
CN HC-OP  
CN HC-OP 25  
CN HCPP-K 5016  
CN HCPPK 5019  
CN HCPPK 5030  
CN HCPPK 5130  
CN HCPPXF 1932  
CN HD 100G  
CN HD 100G2  
CN HD 120M  
CN HD 810MO  
CN HD 822CF  
CN HE 125MO  
CN HE 6104  
CN Hercoflat 1135  
CN Hercoflat 1150  
CN Hercoflat 135  
CN Hercotuf 101A  
CN Hercotuf 110A  
CN Hercotuf 115A  
CN Hercotuf 210A  
CN Hercotuf PB 681  
CN Hercules 6501  
CN HET 6100  
CN HF 100  
CN HF 135  
CN HF 135M  
CN HF 135MO  
CN HF 136MO  
CN HF 3122  
CN HF 36  
CN HF 36 (polyolefin)  
CN HF 445FB  
CN HF 461X  
CN HF 5003  
CN HF 500N  
CN HF 6100  
CN HG 20U  
CN HG 235J  
CN HG 30U  
CN HG 430MO  
CN HGV 04-01  
CN HGX 030  
CN HGZ 08002  
CN HH 100  
CN HH 3150MO  
CN HH 315MO  
CN HH 420J  
CN HH 422H  
CN HHP 3  
CN HI 520  
CN HI Pront  
CN Hidisper 326  
CN Hidisper 7020  
CN Hifax 7320XEP  
CN Hifax CA 131G  
CN Hifax SP 98F94  
CN Highmass Polymer  
CN Highstar  
CN HiGlass PF 062-2  
CN Higlass PF 072-3  
CN Higran F 501

CN Higran F 502  
CN Higran F 503  
CN Higran SD 817  
CN Himer 200P  
CN Himer 550P  
CN Himer 660P  
CN Himer TP 32  
CN Himont 6323PM  
CN Himont 6331  
CN Himont 66.1  
CN Himont HOXP 621  
CN Himont PP 6601  
CN Himont X 10054-12-1  
CN HIP 145  
CN Hipol B 200  
CN Hipol B 200P  
CN Hipol B 278  
CN Hipol F 300  
CN Hipol F 401  
CN Hipol F 600  
CN Hipol F 601  
CN Hipol F 651  
CN Hipol F 657  
CN Hipol F 657P  
CN Hipol J 106  
CN Hipol J 108  
CN Hipol J 200  
CN Hipol J 300  
CN Hipol J 300P  
CN Hipol J 400P  
CN Hipol J 440  
CN Hipol J 600  
CN Hipol J 600P  
CN Hipol J 657Y  
CN Hipol J 700  
CN Hipol J 800  
CN Hipol J 800P  
CN Hipol J 840F  
CN Hipol J 858Y  
CN Hipol J 900  
CN Hipol J 900P  
CN Hipol L 840  
CN Hipol LA 211  
CN Hipol LA 221  
CN Hipol X 20  
CN Hipol X 25  
CN Hipol X 440  
CN Hipolen FY 6  
CN Hipolen MA 3  
CN Hipolen PMA 6  
CN Hipore 3000  
CN Hiprene H 320  
CN Hitallex L 3355  
CN Hivalloy G 7155  
CN Hivalloy GXPA 018  
CN Hiwax NP 055  
CN Hiwax NP 056  
CN Hiwax NP 105  
CN Hiwax NP 505  
CN Hiwax NP 605  
CN Hiwax NP 705  
CN Hiwax NP 805  
CN HJ 220  
CN HJ 240  
CN HJ 500  
CN HJ 700  
CN HLM 020  
CN HM 060  
CN HM 1  
CN HM 1 (polyolefin)  
CN HM 520J  
CN HM 6100

CN HMS-PD PF 611  
CN HMS-PF 814  
CN HMS-PP  
CN Hoechst 160  
CN Hoprene J 150  
CN Hostacom G 3N01L  
CN Hostacom G 3NO1  
CN Hostacom HC-M 4U42  
CN Hostacom M 1U03  
CN Hostacom M 2U01  
CN Hostacom M 4U02  
CN Hostacom P 873F  
CN Hostacom PPU 2090L  
CN Hostalen 1050  
CN Hostalen 1060  
CN Hostalen 1070  
CN Hostalen 1080F  
CN Hostalen 1780S2AST  
CN Hostalen 5216  
CN Hostalen HH 1414  
CN Hostalen LP 290  
CN Hostalen N 1060  
CN Hostalen PP 1070  
CN Hostalen PP 1780F  
CN Hostalen PP 6200  
CN Hostalen PP YD 50G  
CN Hostalen PP-U  
CN Hostalen PP-VP 7790GV2/30  
CN Hostalen PPG 0150  
CN Hostalen PPH 0150  
CN Hostalen PPH 1050  
CN Hostalen PPH 2150  
CN Hostalen PPH 2250  
CN Hostalen PPH-VP 7350FL  
CN Hostalen PPK  
CN Hostalen PPK 0160  
CN Hostalen PPK 1060F  
CN Hostalen PPK-VP 1018  
CN Hostalen PPN  
CN Hostalen PPN 0160  
CN Hostalen PPN 1060F  
CN Hostalen PPN 1060F3  
CN Hostalen PPN 1075  
CN Hostalen PPN 1075F  
CN Hostalen PPN 1076F  
CN Hostalen PPN 1080  
CN Hostalen PPN-VP 1009  
CN Hostalen PPN-VP 7790GV2/30  
CN Hostalen PPT VP 7090A  
CN Hostalen PPU 0180P  
CN Hostalen PPU 1080  
CN Hostalen PPU 1734  
CN Hostalen PPU 1780  
CN Hostalen PPU 1780F  
CN Hostalen PPU 1789  
CN Hostalen PPU-VP 1770F  
CN Hostalen PPV 1780F Natur  
CN Hostalen PPW 1780  
CN Hostalen PPW 1780S1  
CN Hostalen PPX 694  
CN Hostalen VP 7780GV  
CN Hostaprop  
CN HOXP 621  
CN HP 1078  
CN HP 400N  
CN HP 425J  
CN HP 456H  
CN HP 500U  
CN HP 501H  
CN HP 502L  
CN HP 502N  
CN HP 524J

CN HPP 9433  
CN HS 01  
CN HS 200XG4  
CN HT 0013  
CN HT 022  
CN HT 1050  
CN HT 121  
CN HT 340  
CN HT 441  
CN HT 6004  
CN HU 100G  
CN Huntsman 4011  
CN Huntsman 5520  
CN Huntsman 5824  
CN Huntsman P 4G2Z073AX  
CN HV 206  
CN HW 160GR30  
CN HW 1925  
CN HW 25  
CN HW 525M  
CN HWM 25  
CN HY 001  
CN HY 200  
CN HY 6100N  
CN Hydrocer ER 77  
CN Hyosung C  
CN Hyosung T  
CN Hypron ASC  
CN Hytec E 4333N  
CN Hytec P 5060BN  
CN Hytec P 5060S  
CN I 703  
CN ICI 543  
CN Icorene 9013P  
CN Icorene 9184B-P  
CN Idemitsu Polypro E 170GM  
CN Idemitsu Polypro F 205S  
CN Idemitsu Polypro F 700N  
CN Idemitsu Polypro J 3000GP  
CN Idemitsu PP F 704  
CN Idemitsu PP F 744  
CN Idemitsu PP-B 3050  
CN IF 1SOA  
CN IH 10  
CN IML 333  
CN Inspire C 704-07  
CN Inspire C 705-44NAHP  
CN Inspire D 207-01  
CN Inspire D 404-01  
CN Inspire H 100-01  
CN Inspire H 110-02N  
CN Inspire H 301-02AS  
CN Inspire H 512-52RNA  
CN Inspire H 700-12  
CN Inspire H 701-20NA  
CN Inspire H 704-04  
CN Inspire H 715-12  
CN Inspire H 716  
CN IO 6417  
CN IP 305  
CN IP 407  
CN IR 20  
CN IR 20 (polyolefin)  
CN Irapol 11H30S  
CN IS 9-62  
CN ISO-FM-PP 40  
CN ISO-FSM-PP 40  
CN Isopor  
CN Isopor (polypropylene)  
CN Isplen  
CN Isplen 020  
CN Isplen D 50

CN	Isplen PB 170U
CN	Isplen PP 040
CN	Isplen PP 044W3f
CN	Isplen PP 070
CN	Isplen PP 080
CN	J 101
CN	J 101W
CN	J 102
CN	J 102WAT
CN	J 103
CN	J 103WA
CN	J 103WB
CN	J 104
CN	J 104W
CN	J 104WC
CN	J 104WT
CN	J 105
CN	J 105F
CN	J 105H
CN	J 105P
CN	J 105PPT
CN	J 105W
CN	J 106
CN	J 106M
CN	J 106P
CN	J 106PT
CN	J 106W
CN	J 106WB
CN	J 108
CN	J 108P
CN	J 115
CN	J 115G
CN	J 120G
CN	J 140WA
CN	J 150
CN	J 150 (polyolefin)
CN	J 150G
CN	J 160F
CN	J 2000G
CN	J 2000GP
CN	J 2003G
CN	J 2003GP
CN	J 2004G
CN	J 201
CN	J 201 (polyolefin)
CN	J 2021R
CN	J 2041GA
CN	J 205
CN	J 209
CN	J 220
CN	J 226E
CN	J 240
CN	J 240F
CN	J 247TW
CN	J 300
CN	J 3000G
CN	J 3000GP
CN	J 3000GV
CN	J 300P
CN	J 3053HP
CN	J 3056HP
CN	J 30S
CN	J 340
CN	J 340 (Chinese polyolefin)
CN	J 340W
CN	J 400P
CN	J 420G
CN	J 440
CN	J 466H
CN	J 466HP
CN	J 4H2187
CN	J 5010B

CN	J 5050B
CN	J 5053H
CN	J 5100
CN	J 5200A
CN	J 5350A
CN	J 5700
CN	J 604P
CN	J 6083H
CN	J 6083HP
CN	J 620M
CN	J 626
CN	J 626E
CN	J 630G
CN	J 650M
CN	J 700
CN	J 700 (polyolefin)
CN	J 7000
CN	J 700G
CN	J 700GP
CN	J 700M
CN	J 700P
CN	J 701
CN	J 701PT
CN	J 702L
CN	J 702LB
CN	J 704MA
CN	J 705Z
CN	J 707Z
CN	J 708UG
CN	J 709
CN	J 7090
CN	J 709W
CN	J 713M
CN	J 723
CN	J 723G
CN	J 726HP
CN	J 728
CN	J 740F
CN	J 750
CN	J 750H
CN	J 751HP
CN	J 762H
CN	J 780M
CN	J 800
CN	J 900
CN	J 900G
CN	J 900P
CN	J 901H
CN	J 903GP
CN	J 915HK
CN	J 920
CN	J-Allomer
CN	J-Allomer 150G
CN	J-Allomer C 4302Y
CN	J-Allomer F 120K
CN	J-Allomer FA 235-1
CN	J-Allomer FA 462
CN	J-Allomer FA 465
CN	J-Allomer FD 332
CN	J-Allomer LR 510
CN	J-Allomer LR 711-5
CN	J-Allomer M 1500
CN	J-Allomer M 1600
CN	J-Allomer M 1700
CN	J-Allomer MA 421B
CN	J-Allomer MA 710
CN	J-Allomer MA 810B
CN	J-Allomer MK 122
CN	J-Allomer PC 600S
CN	J-Allomer PC 630S
CN	J-Allomer PF 540B
CN	J-Allomer PM 600A

CN J-Allomer PS 201A  
CN J-Allomer PX 600A  
CN J-Allomer SA 510  
CN J-REX LS 712  
CN J-REX PP-FA 235-1  
CN J-REX PP-FA 465  
CN J8 30HV  
CN JF 300  
CN JF 6100  
CN JGD 1800  
CN JHH  
CN JHH-M  
CN JI 350  
CN JMD 4500  
CN Jonwax 39  
CN JP 900GP  
CN JS 1429  
CN JS 38  
CN JS-UHM  
CN JSC 70  
CN JWE 4A  
CN JY 600  
CN K 1000  
CN K 1008  
CN K 1016  
CN K 2401  
CN K 299  
CN K 300  
CN K 300 (polyolefin)  
CN K 4017  
CN K 5016  
CN K 5019  
CN K 5020  
CN K 5108  
CN K 5360  
CN K 7020  
CN K 7030R  
CN K 7750  
CN K 8250T  
CN K 9920  
CN K-Tac 100A  
CN K-TAC 2015  
CN Kaplen 01/30  
CN Kaplen 01003  
CN Kaplen 01030  
CN Kaplen 35  
CN Kastilene M 260  
CN KFC 201  
CN Kimdura FPG 110  
CN Kimdura ITE 105  
CN Kimdura KPK 80  
CN KJ 209  
CN KM 210  
CN KM 5100  
CN Kohjin Korap  
CN Kohjin Polyset  
CN Koplene J 370  
CN Koylene  
CN Koylene CP-MI 3530  
CN Koylene E 0035  
CN Koylene M 5630  
CN Koylene S 1730  
CN Koylene XF 30  
CN KP 010  
CN KP Sheet  
CN KS 10-4095D-II  
CN L 840  
CN LA 221  
CN LA 333  
CN LA 335  
CN Lacqten 3020FD1  
CN Lacqten 3050FNI

CN Lacqten 3120MN1  
CN Lacqten P 3030FN1  
CN Ladene 520L  
CN Ladene PP 512P  
CN Ladene PP 520L  
CN Ladene PP 570P  
CN Lanco Wax PP 1362D  
CN Latene 3G30  
CN Latene AG 3H2W-G30VO  
CN Latene AG 7H-G30  
CN Latene AG 7H-G40  
CN LBW  
CN LBW 240  
CN LCF 5000  
CN LCMW  
CN LE 3300  
CN Levelite 260LL  
CN LF 25R  
CN Licowax PP 230  
CN Licowax VP 220  
CN Licowax VP-PP 220  
CN Linopor  
CN Lipol  
CN Lipol A 4-70  
CN LOF 2  
CN Lofolen  
CN Lonply XG 200  
CN LR 510  
CN LTW 8101  
CN Lupareen  
CN LY 6100  
CN LYM 42  
CN LZM 60CR  
CN M 1  
CN M 1 (polyolefin)  
CN M 12  
CN M 12 (polyolefin)  
CN M 1300  
CN M 1500  
CN M 1510  
CN M 1600  
CN M 1700  
CN M 180R  
CN M 2  
CN M 2 (polyolefin)  
CN M 2170T  
CN M 530  
CN M 530 (polyolefin)  
CN M 5H  
CN M 5W  
CN M 700R  
CN M 7686  
CN M 8619  
CN M 90  
CN M 90 (polyolefin)  
CN MA 03HS  
CN MA 1  
CN MA 2A  
CN MA 2P  
CN MA 3  
CN MA 3H  
CN MA 3N  
CN MA 3U  
CN MA 4A  
CN MA 5Q  
CN MA 610H  
CN MA 6B  
CN MA 7  
CN MA 710  
CN MA 8  
CN MA 810B  
CN MA 8Q

CN MAC 3  
CN Malen 66NX23D022  
CN Malen B 202  
CN Malen J 300  
CN Malen J 450  
CN Malen P 401  
CN Malen P 5-202  
CN Malen P-B 200  
CN Malen P-F 402  
CN Malen P-PP-J 400  
CN Malen PJ  
CN Malen PJ 300  
CN Malen PJ 430  
CN Malen PJ 601  
CN Malen PS 202  
CN MAO 6  
CN MAP  
CN Marlex 9400  
CN Marlex GP  
CN Marlex HGH 050-01  
CN Marlex HGL 120-01  
CN Marlex HGN 120-01  
CN Marlex HGX 010  
CN Marlex HGX 030  
CN Marlex HGX 330  
CN Marlex HGZ 08002  
CN Marlex HGZ 120-02  
CN Marlex HGZ 350  
CN Marlex HGZ 50  
CN Marlex RMN 020  
CN Maurylene  
CN MB 200  
CN MB 230  
CN MB 400  
CN MB 666  
CN MB 777  
CN MBO 6B  
CN MC 01C  
CN MC 3B  
CN MCA 389  
CN MD 020TP2N  
CN MD 105  
CN MD 105 (polyolefin)  
CN MD 632  
CN ME 210U  
CN ME 230  
CN ME 240  
CN ME 311  
CN Membrane 1222  
CN Merchant Powder  
CN Metocene X 50081  
CN Metocene X 50109  
CN Metocene X 50116  
CN Metocene X 50131  
CN Metocene X 50149  
CN Metocene X 50182  
CN Metocene X 50212  
CN Metrigard  
CN MF 20  
CN MF 20 (polypropylene)  
CN MF 21  
CN MF 70  
CN MF 70 (polyolefin)  
CN MFI 12  
CN MFI 25  
CN MFI 3  
CN MFI 50  
CN MFX 700-10HS  
CN MFX 7006HS  
CN MG 03B  
CN MG 05BS  
CN MG 05DS

CN MG 3C  
CN MG-H 57541  
CN MGF 1650  
CN MH 113Y  
CN MH 493  
CN MH 6  
CN MH 8  
CN MI 60  
CN Michem 43040  
CN Michem Emulsion 43040  
CN Micro-M  
CN Microlen  
CN Micropro 400  
CN Micropro 600  
CN Micropro 600VF  
CN Microspersion 31-40  
CN Microthene FP 80000  
CN Millephane  
CN Miradrene  
CN Mirayphane  
CN Mitsui NP 055  
CN MixFilm  
CN MJ 145  
CN MJ 170  
CN MK 1  
CN MK 1 (polyolefin)  
CN MK 411B  
CN MK 413A  
CN MK 812B  
CN MK 852  
CN MK 852 (polyolefin)  
CN ML-HC-OP 30  
CN MLOP 102  
CN MM 2A  
CN MN 250  
CN Montell 5C39F  
CN Montell 6323NT  
CN Montell 6331  
CN Montell MH 113Y  
CN Montell PH 920S  
CN Moplefan BT  
CN Moplefan OT  
CN Moplen 20  
CN Moplen 2005HEXP  
CN Moplen 30CS  
CN Moplen 3400MN1  
CN Moplen 340N  
CN Moplen 456H  
CN Moplen 60R  
CN Moplen 7073XOP  
CN Moplen AD 50N  
CN Moplen AS 50  
CN Moplen BT 20  
CN Moplen C  
CN Moplen C 30  
CN Moplen C 30S  
CN Moplen C 50J  
CN Moplen D 505  
CN Moplen D 50G  
CN Moplen D 50S  
CN Moplen D 60  
CN Moplen D 60R  
CN Moplen E1X 94J  
CN Moplen EP 1Q3OB  
CN Moplen EP 1X35AF  
CN Moplen EP 2629EB  
CN Moplen EP 301K  
CN Moplen EP 501L  
CN Moplen EPN 31MA  
CN Moplen EPQ 30RNPP  
CN Moplen EPQ 57PY  
CN Moplen F 020

CN Moplen F 30F  
CN Moplen FH 20  
CN Moplen FL 20F  
CN Moplen FL-X 020  
CN Moplen FLD 50S  
CN Moplen FLP 20  
CN Moplen FLS 20  
CN Moplen FLT 30S  
CN Moplen FLX 30S  
CN Moplen H 32GA  
CN Moplen HF 500N  
CN Moplen HP 1078  
CN Moplen HP 400R  
CN Moplen HP 456H  
CN Moplen HP 483R  
CN Moplen HP 500H  
CN Moplen HP 500U  
CN Moplen HP 502L  
CN Moplen HP 502N  
CN Moplen HP 510M  
CN Moplen HP 522H  
CN Moplen I 30  
CN Moplen I 30G  
CN Moplen M 24EAC  
CN Moplen MD  
CN Moplen PM-HP 502L  
CN Moplen Q 30  
CN Moplen Q 30G  
CN Moplen Q 30P  
CN Moplen Q 51C  
CN Moplen RP 320H  
CN Moplen S 28F  
CN Moplen S 30  
CN Moplen S 30U  
CN Moplen S 38FT  
CN Moplen S 50G  
CN Moplen SP 98E  
CN Moplen Spheripol YD 50G  
CN Moplen SSF  
CN Moplen Type MD  
CN Moplen VS 6100K  
CN Moplen X 35F  
CN Moplen Z 305  
CN Moplen Z 30S  
CN Mosten  
CN Mosten 52512  
CN Mosten 55.237  
CN Mosten 55211  
CN Mosten 55302900  
CN Mosten 58400  
CN Mosten 58432  
CN Mosten 59-496  
CN Mosten 59306  
CN Mosten MT 230  
CN Mostron L  
CN MP 1000  
CN MP 1002  
CN MR 05  
CN MR 2002  
CN MR 6  
CN MR 6 (polyolefin)  
CN MRP 220M4  
CN MRP 230LL2  
CN MRP-PP 240H2B  
CN MS 170  
CN MS 230  
CN MS 231  
CN MS 231-30  
CN MS 620  
CN MS 620 (polyolefin)  
CN MS 660  
CN MS 664

CN MS 791  
CN MT 42  
CN MT 450  
CN Multiflex A 8502  
CN MW 846  
CN MX 164  
CN MX 201  
CN MX 3A  
CN N 00-2085GW  
CN N 600  
CN N 600 (polyolefin)  
CN N 8100AE20  
CN Naltex 3408  
CN Naltex 75-3719  
CN Naltex LWS  
CN Naphtachimie 61130  
CN Naphtachimie 62100  
CN Naphtachimie 62180  
CN Napryl  
CN Napryl 62040AP  
CN Napryl 6204I  
CN Napryl 62130AG  
CN Napryl 62200AP  
CN Napryl 62600  
CN Napryl 63200AG  
CN Neftohim  
CN Neopolen P  
CN Neopolen P 9225K  
CN Neopolen P 9240  
CN Netring  
CN Newfoamer FH 2400  
CN Newfoamer FH 300  
CN Newfoamer FH 3400  
CN NF  
CN NF (polyolefin)  
CN NF Sheet NG  
CN NF Sheet NS  
CN NF-SB 100  
CN NFR 190H  
CN Nida  
CN Nisseki Polypro F 120K  
CN Nisseki Polypro J 160F  
CN Noblen 100  
CN Noblen 2VH501  
CN Noblen 440GF  
CN Noblen 5020  
CN Noblen 795  
CN Noblen AH 620V  
CN Noblen AH 661V  
CN Noblen AM 3  
CN Noblen AS 171  
CN Noblen ASCM  
CN Noblen AW 131  
CN Noblen AX 901  
CN Noblen AX 961  
CN Noblen AY 864  
CN Noblen AZ 161  
CN Noblen AZ 161C1  
CN Noblen AZ 164E4  
CN Noblen AZ 630V4  
CN Noblen AZ 664E4  
CN Noblen BC 03A  
CN Noblen BC 4Y  
CN Noblen BJ 3H  
CN Noblen BJ 4H-MF  
CN Noblen BJ 5H-MF  
CN Noblen BJ 5H-NF  
CN Noblen BJ 5H-UKT  
CN Noblen BJ 5HG  
CN Noblen BJH-M  
CN Noblen BJHH-MC 20  
CN Noblen BJS-C 10

CN Noblen BPW 5044E  
CN Noblen BPZ 5077  
CN Noblen BTA 51E1  
CN Noblen BUE 81E6  
CN Noblen BWH 42  
CN Noblen BWH 44  
CN Noblen BY 011F  
CN Noblen BYA 81  
CN Noblen D 101  
CN Noblen D 501  
CN Noblen E 3542  
CN Noblen EA 7A  
CN Noblen EB  
CN Noblen EB-J  
CN Noblen EBG  
CN Noblen EFL-G  
CN Noblen EL 80F1  
CN Noblen EP  
CN Noblen EP-A 2  
CN Noblen F 0850H  
CN Noblen F 631  
CN Noblen F 6411  
CN Noblen FA 3  
CN Noblen FA 8011  
CN Noblen FC 240  
CN Noblen FG 3B  
CN Noblen FH 1015  
CN Noblen FH 2011  
CN Noblen FK 145  
CN Noblen FL  
CN Noblen FL 100  
CN Noblen FL 200  
CN Noblen FL 25  
CN Noblen FL 25B  
CN Noblen FL 25F  
CN Noblen FL 25HA  
CN Noblen FL 25K  
CN Noblen FL 331G  
CN Noblen FL 4  
CN Noblen FL 6  
CN Noblen FL 600  
CN Noblen FL 6314  
CN Noblen FL 6315  
CN Noblen FL 6315G  
CN Noblen FL 6411  
CN Noblen FL 6411A  
CN Noblen FL 6C  
CN Noblen FL 7013  
CN Noblen FL 800  
CN Noblen FL 8013  
CN Noblen FL-G  
CN Noblen FLX 80E4  
CN Noblen FO 100  
CN Noblen FO 200H  
CN Noblen FO 50F  
CN Noblen FO 850  
CN Noblen FP  
CN Noblen FS 101  
CN Noblen FS 1012  
CN Noblen FS 200  
CN Noblen FS 2011  
CN Noblen FS 2011C  
CN Noblen FS 2011DG  
CN Noblen FS 2911D  
CN Noblen FW 363A  
CN Noblen FY 3  
CN Noblen FY 4  
CN Noblen FY 6C  
CN Noblen G 20201  
CN Noblen GFL 100  
CN Noblen GHH 43  
CN Noblen GHH 53

CN Noblen H  
CN Noblen H 501  
CN Noblen H 501N  
CN Noblen HD 100  
CN Noblen HD 100DG2  
CN Noblen HD 100G2  
CN Noblen HH 100  
CN Noblen HR 100XG  
CN Noblen HS  
CN Noblen HS 200A  
CN Noblen HU 100G  
CN Noblen HW 100  
CN Noblen HY 100  
CN Noblen HZ 100A  
CN Noblen IF 150A  
CN Noblen J 101TA  
CN Noblen J 3H3  
CN Noblen JH  
CN Noblen JH 1501  
CN Noblen JH-SA 20  
CN Noblen JHH  
CN Noblen JHH 791  
CN Noblen JHH-M  
CN Noblen JHHG  
CN Noblen JK-M  
CN Noblen JMH-G  
CN Noblen JS  
CN Noblen JS 1429  
CN Noblen JS 2871  
CN Noblen JS 4793  
CN Noblen JS-M  
CN Noblen JS-UHM  
CN Noblen KST 1W60  
CN Noblen KST 2W100  
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CN Noblen MA 3  
CN Noblen MA 7  
CN Noblen MA 8  
CN Noblen MA 8A  
CN Noblen MH 6  
CN Noblen MH 8  
CN Noblen MK 3HK  
CN Noblen MM 2A  
CN Noblen MX 3A  
CN Noblen NP 58  
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CN Noblen P 002  
CN Noblen P 8836J  
CN Noblen PY 220  
CN Noblen PY 230  
CN Noblen S 101  
CN Noblen S 131DG  
CN Noblen S 501  
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CN Noblen SHG  
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CN Noblen STFL-M  
CN Noblen SV-E 3  
CN Noblen TA 8  
CN Noblen TJ 1  
CN Noblen U 501E1  
CN Noblen W 100  
CN Noblen W 101S  
CN Noblen W 501  
CN Noblen W 501E  
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CN Noblen W 900  
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CN Noblen WF 464  
CN Noblen WF 727F  
CN Noblen WF 727H

CN Noblen WF 836D  
CN Noblen WF 842B  
CN Noblen WF 900  
CN Noblen WF 942  
CN Noblen WF 949C  
CN Noblen WFD 5073  
CN Noblen WFS 5072  
CN Noblen WP 834A  
CN Noblen WP 974-1F  
CN Noblen X 668  
CN Noblen X 701E1  
CN Noblen Y 101  
CN Noblen Y 101C  
CN Noblen Y 501  
CN Noblen YE 101  
CN Noblen YP 220  
CN Noblen Z 101  
CN Noblen Z 101B  
CN Nonskid 5389  
CN Norchem NPP 2000GJ  
CN Norchem NPP 2085GW  
CN Norchem NPP 8020GU  
CN Norchem NPP 8080  
CN Norsopryl MM 4030  
CN NOV 1400  
CN Novamont 2030  
CN Novatec 4100B  
CN Novatec AP 030P  
CN Novatec BC 03LS  
CN Novatec BC 056C  
CN Novatec BC 5D  
CN Novatec EA 7  
CN Novatec EA 9  
CN Novatec FA 3DA  
CN Novatec FB 3GT  
CN Novatec FY 6C  
CN Novatec H 57541  
CN Novatec MA .1  
CN Novatec MA 2  
CN Novatec MA 2H  
CN Novatec MA 3  
CN Novatec MA 8  
CN Novatec MG 05BS  
CN Novatec N 4100B  
CN Novatec P 1220F  
CN Novatec P 4100B  
CN Novatec P 4100Y  
CN Novatec P 4200E  
CN Novatec P 4200Y  
CN Novatec P 4500J  
CN Novatec P 6500  
CN Novatec P 8826J  
CN Novatec PP 4400F  
CN Novatec PP-BC 5D  
CN Novatec PP-EA 7  
CN Novatec PP-EA 8  
CN Novatec PP-EA 8A  
CN Novatec PP-EA 9  
CN Novatec PP-FA 3D  
CN Novatec PP-FA 3DA  
CN Novatec PP-FB 3GT  
CN Novatec PP-FB 3T  
CN Novatec PP-FG 3DF  
CN Novatec PP-FL 25HA  
CN Novatec PP-FL 25T  
CN Novatec PP-FL 4D  
CN Novatec PP-FY 3  
CN Novatec PP-FY 6C  
CN Novatec PP-FY 6H  
CN Novatec PP-MA 1  
CN Novatec PP-MA 2  
CN Novatec PP-MA 2HA

CN Novatec PP-MA 3  
CN Novatec PP-MA 3Q  
CN Novatec PP-MA 3U  
CN Novatec PP-MA 4D  
CN Novatec PP-MA 4U  
CN Novatec PP-MA 8  
CN Novatec PP-MG 03B  
CN Novatec PP-MG 05BS  
CN Novatec PP-MG 2T  
CN Novatec PP-TA 3  
CN Novatec PP-TA 8  
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CN Novolen  
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CN Novolen 1100RC  
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CN Novolen 1102K  
CN Novolen 1102M  
CN Novolen 1106  
CN Novolen 1106H  
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CN Novolen 1111LX-GA6  
CN Novolen 1120NX  
CN Novolen 1125N  
CN Novolen 1127  
CN Novolen 1127MX  
CN Novolen 1127N  
CN Novolen 1128MC  
CN Novolen 1142PCX-GA6  
CN Novolen 1160L  
CN Novolen 1184L  
CN Novolen 120NX  
CN Novolen 1300  
CN Novolen 1300E  
CN Novolen 1300M  
CN Novolen 1300ZX  
CN Novolen 1320HX  
CN Novolen 1320LX  
CN Novolen 1325L  
CN Novolen 1325M  
CN Novolen 2300K  
CN Novolen 2348TC  
CN Novolen 2512HX  
CN Novolen 2862JX  
CN Novolen 3225MC  
CN Novolen 3300HX  
CN Novolen 3340PC  
CN Novolen HP 501H  
CN Novolen KR 1300P  
CN Novolen KR 1318  
CN Novolen KR 1682  
CN Novolen N 1102M  
CN Novolen N-Q 619  
CN Novolen PP 1104K  
CN Now 8024  
CN NP 055  
CN NP 056  
CN NP 105  
CN NP 105 (polyolefin)  
CN NP 500  
CN NP 500 (polypropylene)  
CN NP 505  
CN NP 800  
CN NP 800 (polypropylene)  
CN NP 805  
CN NPP 2004MR

CN NPP 2085GW  
CN NPP 8755  
CN NRD 5-1234  
CN NS 3450  
CN NS 3451  
CN NS 5521  
CN NS 670  
CN NWP 1060-62  
CN NX 1100  
CN NX 280AK  
CN NX 671M2  
CN NX 801  
CN O 521-48FR  
CN OA 25  
CN Oleace 2211  
CN Oleform GCS 30  
CN Oleform XK 3324ZW163  
CN Oletac 100  
CN ON 5340  
CN OP 20U1  
CN OP 4  
CN OP 4 (polyolefin)  
CN OP Shiyurin Y  
CN OP-P 2261  
CN OP-U 0  
CN OP-U 1  
CN OP-Z 102  
CN OPL-W  
CN OPM 1  
CN OPP Tape  
CN OPP-HM 1-25  
CN Oppalyte 350ASW  
CN Oppera PP 6102  
CN OPU 2-20  
CN OW  
CN OW 9025  
CN OW Clear  
CN OWCS 20  
CN P 061F  
CN P 1010  
CN P 1023  
CN P 1111  
CN P 1120  
CN P 1128  
CN P 1128AG  
CN P 112MN40  
CN P 1143  
CN P 1146  
CN P 1153  
CN P 1156  
CN P 120UA04F  
CN P 15M00  
CN P 16M10  
CN P 1700  
CN P 1700 (polyolefin)  
CN P 200  
CN P 200 (wax)  
CN P 2102  
CN P 2108  
CN P 2161  
CN P 2241  
CN P 2261  
CN P 243L  
CN P 260  
CN P 260 (polyolefin)  
CN P 2601  
CN P 2761  
CN P 300  
CN P 300 (polyolefin)  
CN P 3155  
CN P 36D  
CN P 400S

CN	P 403B
CN	P 4C5B076
CN	P 4C5B080
CN	P 4C5K123A
CN	P 4C5N046
CN	P 4C5Z027
CN	P 4C6Z054
CN	P 4C6Z059
CN	P 4G2Z011
CN	P 4G2Z026
CN	P 4G2Z073AX
CN	P 4G2Z159
CN	P 4G3Z039
CN	P 4G4B
CN	P 4G4K038
CN	P 4G4Z001
CN	P 4G4Z001 Natural
CN	P 4G4Z011
CN	P 528
CN	P 530
CN	P 530 (polyolefin)
CN	P 5M4K046
CN	P 6-30FG0153
CN	P 6035
CN	P 68
CN	P 68 (polyolefin)
CN	P 7000
CN	P 7000 (polypropylene)
CN	P 700J
CN	P 8045
CN	P 8400
CN	P 9030
CN	P Matto
CN	P-Block
CN	P-HL 001PF
CN	P-HV 001
CN	P-Plus 160
CN	PA 164V
CN	PA 189V
CN	PA 20
CN	PA 20 (polypropylene)
CN	PA 954
CN	Paisley 750
CN	Paisley polymer
CN	Patorosen 291A
CN	PB 0580
CN	PB 120A
CN	PB 260
CN	PB 260 (polyolefin)
CN	PB 262
CN	PB 264
CN	PB 264 (polyolefin)
CN	PC 203
CN	PC 336
CN	PC 366-3
CN	PC 410A
CN	PC 600S
CN	PC 630S
CN	PC 802A
CN	PC 973
CN	PD 064
CN	PD 191
CN	PD 3443
CN	PD 3505G
CN	PD 4062E7
CN	PD 4252
CN	PD 5132
CN	PD 8062
CN	PD 888
CN	PDC 1120
CN	PDC 1194
CN	PDC 1267

CN PDC 1274  
CN PDC 1277  
CN PE 015  
CN PE 503C  
CN Peach 80  
CN Peachcoat SPB 70  
CN Pellon 2505  
CN Pellon 2506  
CN Pellon FT 2140  
CN Pemex 120  
CN Petrothene 31S3A  
CN Petrothene 51S12A  
CN Petrothene PP 1002NF  
CN Petrothene PP 2004MR  
CN PF 100  
CN PF 100 (polyolefin)  
CN PF 101  
CN PF 20  
CN PF 20 (polyolefin)  
CN PF 21  
CN PF 22  
CN PF 250B  
CN PF 304  
CN PF 305  
CN PF 341  
CN PF 3521  
CN PF 540B  
CN PF 611  
CN PF 623  
CN PF 633  
CN PF 716  
CN PF 716 (polyolefin)  
CN PF 814F  
CN PF 815  
CN PG 4003  
CN PGR 25  
CN PH 020  
CN PH 350  
CN PH 6201  
CN PH 6301  
CN PH 821S  
CN PH 920S  
CN PHA 943  
CN Pistac CC  
CN Pistac L  
CN PJ 24C  
CN PJS  
CN PJX 2135  
CN PL 400A  
CN PL 500  
CN PL 500 (polyolefin)  
CN PL 504A  
CN PL 600L  
CN PL-F 3N  
CN PLA 00C  
CN Plasmaflux P 2  
CN Plastron PP-GF 30  
CN Plastron PP-GF 40-02  
CN PLTD 1542  
CN PLTD 713  
CN Plyen OT-P 2261  
CN PLZ 860  
CN PLZ 937  
CN PM 600A  
CN PM 761W  
CN PM 801Z  
CN PM 802  
CN PM 802A  
CN PM 870L  
CN PMA 6000  
CN PMA 60Z  
CN PMB 60A

CN PN 100G  
CN PN 150  
CN PN 150 (polyolefin)  
CN PN 150G  
CN PN 18HG  
CN PN 230  
CN PN 240  
CN PN 240A  
CN PN 260  
CN PN 440  
CN PN 640  
CN PN 640 (polyolefin)  
CN PO 51F  
CN Poly one  
CN Polyace 25H  
CN Polyace NR  
CN Polyfill TS 20020UV  
CN Polyflam RPP 371  
CN Polyfort FPP 20T  
CN Polyfort PP 1329  
CN Polypan 3286  
CN Polyplac  
CN Polypol 19  
CN Polypro 1014  
CN Polypro 1016  
CN Polypro 101B  
CN Polypro 1220F  
CN Polypro 2024  
CN Polypro 2129  
CN Polypro 3115G  
CN Polypro 4100M  
CN Polypro 4100Y  
CN Polypro 4300J  
CN Polypro 4500J  
CN Polypro 4700J  
CN Polypro 4806J  
CN Polypro 5014  
CN Polypro 5078  
CN Polypro 6200E  
CN Polypro 8100E  
CN Polypro 8800J  
CN Polypro A 4141  
CN Polypro A 5013  
CN Polypro B 101H  
CN Polypro B 101WAT  
CN Polypro B 221WA  
CN Polypro B 230  
CN Polypro B 246  
CN Polypro B 761QD  
CN Polypro BC 2A  
CN Polypro BC 3E  
CN Polypro BEBG  
CN Polypro BJH-G  
CN Polypro C 031  
CN Polypro CF 3013  
CN Polypro CJ 207  
CN Polypro E 100  
CN Polypro E 100G  
CN Polypro E 100GM  
CN Polypro E 102  
CN Polypro E 103D  
CN Polypro E 110G  
CN Polypro E 111  
CN Polypro E 1200  
CN Polypro E 120G  
CN Polypro E 120G2  
CN Polypro E 120G5  
CN Polypro E 121WA  
CN Polypro E 170GM  
CN Polypro E 200G  
CN Polypro E 4201  
CN Polypro E 610

CN Polypro E 7100  
CN Polypro EA 7  
CN Polypro EA 8  
CN Polypro EA 9  
CN Polypro EFL 200  
CN Polypro F 102LA  
CN Polypro F 103  
CN Polypro F 107DV  
CN Polypro F 109BB  
CN Polypro F 109D  
CN Polypro F 109K  
CN Polypro F 113  
CN Polypro F 1177  
CN Polypro F 120K  
CN Polypro F 122B  
CN Polypro F 133  
CN Polypro F 150J  
CN Polypro F 155J  
CN Polypro F 1566  
CN Polypro F 200S  
CN Polypro F 205S  
CN Polypro F 3021  
CN Polypro F 401  
CN Polypro F 600  
CN Polypro F 651  
CN Polypro F 700N  
CN Polypro F 701WC  
CN Polypro F 704N  
CN Polypro F 704NP  
CN Polypro F 704NU  
CN Polypro F 707V  
CN Polypro F 740M  
CN Polypro F 794  
CN Polypro F 794N  
CN Polypro FL 100  
CN Polypro FL 25T  
CN Polypro FM 101  
CN Polypro FM 101A  
CN Polypro FM 321  
CN Polypro FM 414  
CN Polypro FS 4012  
CN Polypro FY 4  
CN Polypro FY 6C  
CN Polypro G 100G  
CN Polypro G 101  
CN Polypro G 400P  
CN Polypro GCS 20  
CN Polypro GFB 8050  
CN Polypro H 100G  
CN Polypro H 2000G  
CN Polypro H 700  
CN Polypro H 700G  
CN Polypro H 900  
CN Polypro Hipol J 600  
CN Polypro HT 0004  
CN Polypro HT 0011  
CN Polypro HT 0020  
CN Polypro HT 1050  
CN Polypro HT 6001  
CN Polypro HT 6004  
CN Polypro IP 407  
CN Polypro J 101  
CN Polypro J 101PT  
CN Polypro J 103  
CN Polypro J 104W  
CN Polypro J 105  
CN Polypro J 105W  
CN Polypro J 106W  
CN Polypro J 106WB  
CN Polypro J 107W  
CN Polypro J 108  
CN Polypro J 109

CN	Polypro	J	109A
CN	Polypro	J	115G
CN	Polypro	J	120
CN	Polypro	J	120M
CN	Polypro	J	130M
CN	Polypro	J	136
CN	Polypro	J	150G
CN	Polypro	J	160G
CN	Polypro	J	180Y
CN	Polypro	J	2000
CN	Polypro	J	2000G
CN	Polypro	J	2000GP
CN	Polypro	J	2003GP
CN	Polypro	J	200G
CN	Polypro	J	226F
CN	Polypro	J	240F
CN	Polypro	J	2G
CN	Polypro	J	300
CN	Polypro	J	3000GP
CN	Polypro	J	3003GV
CN	Polypro	J	309GL
CN	Polypro	J	312HA
CN	Polypro	J	385
CN	Polypro	J	400
CN	Polypro	J	400MP
CN	Polypro	J	400P
CN	Polypro	J	420G
CN	Polypro	J	440W
CN	Polypro	J	465HBP
CN	Polypro	J	4H-G
CN	Polypro	J	4H100
CN	Polypro	J	5010B
CN	Polypro	J	5040B
CN	Polypro	J	5050B
CN	Polypro	J	5200A
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CN	Polypro	J	700
CN	Polypro	J	700G
CN	Polypro	J	700GP
CN	Polypro	J	700P
CN	Polypro	J	702LB
CN	Polypro	J	7050J
CN	Polypro	J	707ZB
CN	Polypro	J	709W
CN	Polypro	J	713M
CN	Polypro	J	730
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CN	Polypro	J	802H
CN	Polypro	J	802HK
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CN	Polypro	J	880G
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CN	Polypro	K	1016
CN	Polypro	K	1140
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CN	Polypro	K	4017H
CN	Polypro	K	5016
CN	Polypro	K	5019F
CN	Polypro	K	7000
CN	Polypro	K	7030R
CN	Polypro	K	7750
CN	Polypro	K	8140T

CN Polypro K 8250T  
CN Polypro KS 245  
CN Polypro L 5791  
CN Polypro M 1500  
CN Polypro M 1600  
CN Polypro M 1700  
CN Polypro M 4800  
CN Polypro M 7200  
CN Polypro MA 2P  
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CN Polypro ME 140  
CN Polypro ME 180  
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CN Polypro ME 240  
CN Polypro MH 6  
CN Polypro MH 8  
CN Polypro MS 230  
CN Polypro MS 240  
CN Polypro MS 670C  
CN Polypro MS 674  
CN Polypro MS 870  
CN Polypro NT 2002  
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CN Polypro OLTW  
CN Polypro P 1000  
CN Polypro P 6000  
CN Polypro P 6000M  
CN Polypro P 9005  
CN Polypro PF 250B  
CN Polypro PN 140G  
CN Polypro PN 150  
CN Polypro PN 150G  
CN Polypro PN 150G  
CN Polypro PN 180G  
CN Polypro PN 240A  
CN Polypro PN 510T  
CN Polypro PY 220  
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CN Polypro RJ 385  
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CN Polypro S 1014  
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CN Polypro S 13B  
CN Polypro S 205  
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CN Polypro SJ 310  
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CN Polypro SJ 810D  
CN Polypro SSJ 410  
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CN Polypro T 4430  
CN Polypro TA 8  
CN Polypro TF 905  
CN Polypro TX 1088  
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CN Polypro X 50  
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CN Polypro XF 9250  
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CN Polypro XK 6004  
CN Polypro Y 101J  
CN Polypro Y 3002  
CN Polypro Y 3005GT  
CN Polypro YE 101  
CN Polypro YE 140  
CN Polypro Z 101

CN Polypropene  
CN Polypropylene  
CN PolySep  
CN Polysteen PBO-HST  
CN PolySyn M 501  
CN Polytac 500  
CN Polytac R 500  
CN Polytiff RD 3292  
CN Poprolin  
CN Porex X 4908  
CN PP  
CN PP 045  
CN PP 045-1  
CN PP 057-2  
CN PP 1003  
CN PP 1020  
CN PP 11000N  
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CN PP 1126NK  
CN PP 1151  
CN PP 124  
CN PP 1303  
CN PP 1304E1  
CN PP 1329  
CN PP 1374F1  
CN PP 1386  
CN PP 13S10A  
CN PP 1400  
CN PP 1600  
CN PP 1740  
CN PP 186  
CN PP 189V  
CN PP 1947  
CN PP 196  
CN PP 1KB662  
CN PP 2  
CN PP 2 (polymer)  
CN PP 2032  
CN PP 22-01-3C  
CN PP 22-01-5C  
CN PP 2400  
CN PP 251  
CN PP 2600  
CN PP 30  
CN PP 3000  
CN PP 3000 (polyolefin)  
CN PP 301  
CN PP 3014  
CN PP 3050  
CN PP 305GE1  
CN PP 3085L  
CN PP 310HG  
CN PP 3154A  
CN PP 31S07A  
CN PP 333  
CN PP 333 (polyolefin)  
CN PP 3376  
CN PP 3400MA1  
CN PP 3401  
CN PP 3505GE1  
CN PP 352  
CN PP 3907  
CN PP 4  
CN PP 4 (polymer)  
CN PP 401  
CN PP 4092  
CN PP 41  
CN PP 4107  
CN PP 4152  
CN PP 41E2  
CN PP 41E4cs215  
CN PP 41E4cs278

CN	PP 4292E1
CN	PP 4420
CN	PP 4608B
CN	PP 5
CN	PP 5 (polyolefin)
CN	PP 5004
CN	PP 5028S
CN	PP 5088
CN	PP 51S30V
CN	PP 520
CN	PP 52512
CN	PP 5384
CN	PP 5524
CN	PP 5820
CN	PP 5944
CN	PP 5A15H
CN	PP 5C08
CN	PP 5C08
CN	PP 6331
CN	PP 6524NT
CN	PP 70218
CN	PP 7790GV2/30
CN	PP 7C12N
CN	PP 8001LK
CN	PP 8462HR
CN	PP 8619
CN	PP 8771
CN	PP 8800GK
CN	PP 990101-21
CN	PP Type PT
CN	PP-B 3050
CN	PP-CF 30-01
CN	PP-DWU
CN	PP-F 1004EF
CN	PP-F 109K
CN	PP-H 201
CN	PP-J 109K
CN	PP-L 101
CN	PP-L 1120
CN	PP-L 1600
CN	PP-L 320
CN	PP-L 462
CN	PP-L 550
CN	PP-L 833
CN	PP-N-AN
CN	PP-N-BN
CN	PP-P 4G4B036
CN	PP-PT 100
CN	PP-XD 045A
CN	PPAM 1503
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CN	PPC 3660
CN	PPC 4008B
CN	PPC 8750
CN	PPD 0008
CN	PPE 20
CN	PPF 101
CN	PPF 20030
CN	PPF 25030
CN	PPF 401
CN	PPF 680
CN	PPF 800E
CN	PPG 40-02-4
CN	PPG 50
CN	PPH 0150
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CN	PPH 11012
CN	PPH 223
CN	PPH 310MN1
CN	PPH 3410
CN	PPH 5042
CN	PPH 5060

CN PPH 7060  
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CN PPH 9069  
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CN PPH-PD 943  
CN PPH-XD 006  
CN PPH-XD 045  
CN PPJ 400  
CN PPJ 620G  
CN PPK 7250  
CN PPM 800E  
CN PPN 1106  
CN PPS 401  
CN PPS 700  
CN PPSD 30  
CN PPSM  
CN PPSM 15030  
CN PPT 1070  
CN PPT 30S  
CN PPT 680  
CN PPT 770  
CN PPTG  
CN PPU 1780  
CN PPVC 2082C  
CN PPW 5  
CN PQR 01  
CN PR 144  
CN Pramin 2  
CN Pramin 4  
CN Preglon L 15N  
CN Preglon LF 15  
CN Procom GC 20H250  
CN Procom GC 30H25-001  
CN Procom GC 30H251  
CN Profax  
CN Profax 6071  
CN Profax 6100  
CN Profax 6131  
CN Profax 613D  
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CN Profax 626  
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CN Profax 6301NT  
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CN Profax 6523PM  
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CN Profax 6824  
CN Profax 68F5-4  
CN Profax 6901  
CN Profax 7101  
CN Profax 7801  
CN Profax 8263  
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CN Profax HMS-PF 814  
CN Profax N 400-42  
CN Profax PC 072-3

CN Profax PC 973  
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CN Profax PD 191  
CN Profax PD 195  
CN Profax PD 702  
CN Profax PD 888  
CN Profax PD 899  
CN Profax PD 970  
CN Profax PDC 1272  
CN Profax PDC 1274  
CN Profax PDC 1280  
CN Profax PF 101  
CN Profax PF 441  
CN Profax PF 444  
CN Profax PF 623  
CN Profax PF 633  
CN Profax PH 020  
CN Profax PH 060  
CN Profax PH 131  
CN Profax PH 180  
CN Profax PH 350  
CN Profax PH 6331NW  
CN Profax PV 202  
CN Profax R 6301  
CN Profax SB 642  
CN Profax SB 803  
CN Profax SM 240  
CN Profax Z 30S  
CN Profil G 60/30  
CN Proflow 1000  
CN Proflow 5000  
CN Prolen KM 6100  
CN Prolen VM 6100K  
CN Propafilm  
CN Propafilm MVG  
CN Propafilm RGP  
CN Propafilm RHX  
CN Propathene 101/24  
CN Propathene 112/00/Grey9897  
CN Propathene 22/44  
CN Propathene D 714  
CN Propathene GMX 43  
CN Propathene GS 608E  
CN Propathene GSE 18  
CN Propathene GSE 180  
CN Propathene GSE 52  
CN Propathene GSE III  
CN Propathene GSM 10  
CN Propathene GW 521E  
CN Propathene GW 522M  
CN Propathene GWE 26  
CN Propathene GXM 22  
CN Propathene GY 702M  
CN Propathene GYM 45  
CN Propathene HF 100  
CN Propathene HF 20  
CN Propathene HF 200CV170  
CN Propathene HF 22  
CN Propathene HF 23  
CN Propathene HF 32  
CN Propathene HF 85  
CN Propathene HM 100  
CN Propathene HM 20  
CN Propathene HW 607M  
CN Propathene HW 60GR/20/001  
CN Propathene HW 60GR30-001  
CN Propathene HW 60GRWO  
CN Propathene HW 60SF30  
CN Propathene HW 70GR  
CN Propathene HWM 25  
CN Propathene LWF 31

CN Propathene LY 542M  
CN Propathene O  
CN Propathene PXC 3391  
CN Propathene PXC 3830  
CN Propathene PXC 3906  
CN Propathene PXC 4515  
CN Propathene PXC 4717  
CN Propathene PXC 6528  
CN Propathene PXC 8069  
CN Propathene PXC 8639  
CN Propathene PXC 9617  
CN Propene homopolymer  
CN Propene polymer  
CN Propilenas 600G  
CN Propolin  
CN Proponite ANS 100  
CN Propophane  
CN Propylene polymer  
CN Propylene-p-quinone dioxime copolymer  
CN Propylex  
CN PropylMatte 31  
CN Propyloil  
CN Propyloil K 1000  
CN Propyloil K 150  
CN Propyloil K 300  
CN Propyloil Z 800  
CN Propyltex 100  
CN Propyltex 140  
CN Propyltex 20  
CN Propyltex 200S  
CN Propyltex 325S  
CN Propylux  
CN Protec X 104  
CN Protolube 3974  
CN Proxil 45 Low L 35H630  
CN Prylene  
CN Prylene MR 1852  
CN PS 107A  
CN PS 2011  
CN PS 201A  
CN PS 735  
CN PT 110-20  
CN PT 12  
CN PT 181  
CN PT 25E  
CN PT 55-3040ED  
CN PT 551  
CN PTK 1100  
CN PU 102  
CN PU 102 (polyolefin)  
CN PU 112  
CN Pure Softy  
CN Pure Softy H-R 111  
CN Pure Softy HD 111  
CN Purelay  
CN Purelay FG 100  
CN Purelay FG 200  
CN PV 314  
CN PV 940M  
CN PVC 20M  
CN PW 201N  
CN PW 583  
CN PW 600N  
CN PW-A  
CN PWB 02N  
CN PX 2252  
CN PX 600A  
CN PX 600N  
CN PXC 31649  
CN PXC 3391  
CN PXC 4602  
CN PXC 4717

CN PXC 81604  
CN PXC 8639  
CN PY 001  
CN PY 0787  
CN PY 0787F  
CN PY 101  
CN PY 102  
CN PY 220  
CN PY 230  
CN PY 240B  
CN PY 6100  
CN Pylen CT  
CN Pylen CT-P 1120  
CN Pylen CT-P 1128  
CN Pylen CT-P 1128E  
CN Pylen CT-P 1146  
CN Pylen Film CT  
CN Pylen Film OT  
CN Pylen Film OT-F&G-P 5567  
CN Pylen Film OT-P 2002  
CN Pylen Film OT-P 2161  
CN Pylen Film OT-P 2282  
CN Pylen OT  
CN Pylen OT-P 2002  
CN Pylen OT-P 2102  
CN Pylen OT-P 2161  
CN Pylen OT-P 2165  
CN Pylen OT-P 2241  
CN Pylen OT-P 2261  
CN Pylen OT-P 2282  
CN Pylen OT-P 6183  
CN Pylen P 1120  
CN Pylen P 1128  
CN Pylen P 1129  
CN Pylen P 1145  
CN Pylen P 1153  
CN Pylen P 1503  
CN Pylen P 1523  
CN Pylen P 2102  
CN Pylen P 2108  
CN Pylen P 2126  
CN Pylen P 2161  
CN Pylen P 2241  
CN Pylen P 2261  
CN Pylen P 2264  
CN Pylen P 2761  
CN Pylen P 4166  
CN Pylen P 4256  
CN Q 30P  
CN Q/HZS 001-2000  
CN Q/SH C 100-1998  
CN Q/SMCL 4-2002  
CN QDE 2-3-4  
CN QH 1  
CN QH 1 (polymer)  
CN QHH  
CN QPR 01  
CN Quickform  
CN Quickpack  
CN R 06  
CN R 06 (polyolefin)  
CN R 101  
CN R 101 (polyolefin)  
CN R 120MK  
CN R 401  
CN R 401 (polyolefin)  
CN R 50  
CN R 724J  
CN Radil T  
CN Radil T 25NT  
CN Rayoface C 50  
CN Rayoface C 58

CN Rayopp RGP 100  
CN Rayoweb CR 200  
CN Rayoweb CR 50  
CN RB 121D  
CN RB 501F  
CN RC 0006  
CN RD 121D  
CN RE 1205  
CN Repol 350FG  
CN Repol H 030SG  
CN Repol H 100EY  
CN Repol H 200MA  
CN Resinex 225  
CN ResinKit 27  
CN ResinKit 38  
CN ResinKit 44  
CN ResinKit 45  
CN ResinKit 46  
CN Rexene 32M2  
CN Rexene 41E2  
CN Rexene 41E4CS215  
CN Rexene 51S07A  
CN Rexene 51S07A  
CN Rexene 54H5  
CN Rexene FD-D 1700  
CN Rexene PP 31S4A  
CN Rexene W 101  
CN Rexflex 2330  
CN Rexflex FP-D 100  
CN Rexflex FP-D 1700  
CN Rexflex FP-D 1720  
CN Rexflex FP-D 2300  
CN Rexflex FPO-D 100  
CN Rexflex FPO-D 1720  
CN Rexflex FPO-W 101  
CN Rexflex FPO-W 108  
CN Rexflex FPO-WL 101  
CN Rexflex FPO-WL 113  
CN Rexflex RT 2180  
CN Rexflex W 101  
CN Rexflex W 102  
CN Rexflex W 104  
CN Rexflex W 107  
CN Rexflex W 108  
CN Rexflex W 110  
CN Rexflex W 111  
CN Rexflex W 112  
CN Rexflex W 121  
CN Rexflex W 304  
CN Rexflex WL 101  
CN Rexflex WL 105  
CN Rexflex WL 111  
CN Rexflex WL 125  
CN Rexflex WL 313  
CN Rextac 2535  
CN Rextac RT 2180  
CN RF 1310  
CN RF 1342  
CN RF 395  
CN RF 825MO  
CN RMO  
CN RMO 45  
CN RN 2020E  
CN ROSO-LR 400  
CN RR 03-4-0  
CN RR 3  
CN RS 103  
CN RS 140XG  
CN RS 2502  
CN RS 503C  
CN RS 512C  
CN RT 2115

CN RT 2180  
CN RT 2180A  
CN RT 2316  
CN RTC-C 3000-35B  
CN RTC-C 3000-40B  
CN RTC-C 4000-20B  
CN RTP 0199  
CN RTP 0199A  
CN RTP 0199D  
CN RTP 100  
CN RTP 100GB30  
CN RTP 102M25  
CN RTP 107  
CN RTP 128  
CN RV 421  
CN RW 110  
CN RXC 1  
CN RXC 11  
CN RXC 18  
CN S 100  
CN S 100 (polyolefin)  
CN S 1003  
CN S 1003 (polypropylene)  
CN S 1018  
CN S 105  
CN S 105 (polyolefin)  
CN S 107WA  
CN S 115  
CN S 115 (polyolefin)  
CN S 115M  
CN S 1300  
CN S 1300 (polyolefin)  
CN S 130M  
CN S 13B  
CN S 28C  
CN S 28C (polyolefin)  
CN S 6100  
CN S 651  
CN SA 10F  
CN SA 3025  
CN SA 4020G  
CN SA 40HM  
CN SA 510  
CN SA 847  
CN Safe-FR 4299  
CN San Orient PB 262  
CN Sanatakku  
CN Sanorient 20  
CN Sanorient FOA  
CN Sanwax 330P  
CN Sasolen 1102H  
CN SB 006  
CN SB 150  
CN SB 150 (polyolefin)  
CN SB 210  
CN SB 382  
CN SB 52S  
CN SB 823  
CN SB-E 3  
CN Scolefin PP 32G60-1  
CN Scolefin PP 33G10-2  
CN SD 5220  
CN SD 619  
CN SE 1000  
CN Selex 20  
CN Sepa YL 01  
CN SFC 750  
CN SFR 170G  
CN SG 802  
CN SGS 80  
CN SH 1  
CN SH 1 (polyolefin)

CN SHD 50  
CN Shell 5220  
CN Shell 5384  
CN Shell 5820  
CN Shell 6300  
CN Shell Pol-A  
CN Shoallomer  
CN Shoallomer 413  
CN Shoallomer AT  
CN Shoallomer EA 110  
CN Shoallomer FA 112  
CN Shoallomer FA 120  
CN Shoallomer FA 130  
CN Shoallomer FA 210  
CN Shoallomer FA 432  
CN Shoallomer FA 465  
CN Shoallomer FA 523  
CN Shoallomer Fa 530  
CN Shoallomer FA 531  
CN Shoallomer FG 461  
CN Shoallomer FG 531  
CN Shoallomer FK 114C  
CN Shoallomer FZ 410  
CN Shoallomer LR 510  
CN Shoallomer LR 710-3  
CN Shoallomer LS 710  
CN Shoallomer M 1700  
CN Shoallomer MA 610  
CN Shoallomer MA 610H  
CN Shoallomer MA 710  
CN Shoallomer MA 810  
CN Shoallomer MA 810B  
CN Shoallomer MK 110  
CN Shoallomer MK 310  
CN Shoallomer PM 091  
CN Shoallomer PM 150  
CN Shoallomer PM 152  
CN Shoallomer SA 510  
CN Shoallomer SMA 410  
CN Shoallomer SSA 510  
CN Shoallomer ZP  
CN Shorko M  
CN Shrink-Rite  
CN Silfan ML 2  
CN Silfan MT  
CN Silfan MTO  
CN Silpon 4  
CN Silprob B 50  
CN SJ 310  
CN SK 111A  
CN SK 11A  
CN SK 11C  
CN SK 500  
CN SK 500 (polyolefin)  
CN SK 712  
CN Slovnaft HPF  
CN SM 17506  
CN SM 17507  
CN SM 17558  
CN SM 85N  
CN SMA 210-3  
CN SMA 410  
CN SMA 710  
CN SMA 810  
CN SMA 810B2  
CN SMLPP  
CN SND BDH  
CN Softlon PP  
CN Softlon SP  
CN Softlon SP 1003  
CN Softlon SP 1004  
CN Softlon SPH 2703

CN Softlon SPV 2502  
CN Softon SP-V  
CN Softrex EL 6D21  
CN Solmed 200  
CN Soltex 3651  
CN Soltex 3907  
CN Soltex 6C44  
CN Solvay 1602  
CN Solvay 1901  
CN SP 850  
CN SP 850 (polyolefin)  
CN Spheripol  
CN Spheripol KP 010  
CN Spinnlon  
CN SPOP-BL  
CN SPV 2502  
CN SS 12  
CN SS 12 (polyolefin)  
CN SS 121  
CN SSA 510-3  
CN SSA 510B  
CN ST 611  
CN StaMax P 30YM240/10010  
CN Stamyln 112Mn10  
CN Stamyln 112MN40  
CN Stamyln 14E10  
CN Stamyln A-PP 10  
CN Stamyln CX 02  
CN Stamyln P 10E13  
CN Stamyln P 112MN40  
CN Stamyln P 11E10  
CN Stamyln P 12E62  
CN Stamyln P 14E10  
CN Stamyln P 15E10FB  
CN Stamyln P 15EK10  
CN Stamyln P 15M00  
CN Stamyln P 15M10  
CN Stamyln P 16M10  
CN Stamyln P 17M10  
CN Stamyln P 19MN10  
CN Stamyln P 22E10  
CN Stamyln P 312MNX40  
CN Stamyln P 43T1030  
CN Stamyln P 46M10  
CN Stamyln P 48M10  
CN Stamyln P 83E00  
CN Stamyln P 83M18  
CN Stamyln P-PHC 22/20  
CN Stamyln PP 48MN40  
CN Stamyln PPH 10  
CN Stamyroid 43C  
CN Stamyroid APP  
CN Stat-Tech PP-NX  
CN Statoil 151  
CN Statoil MF 4  
CN Statoil P 061F  
CN Statoil P 401H  
CN Statoil PP 401H  
CN STC Pearl Film  
CN Steplon  
CN STH 300BS  
CN Stilan BS 20  
CN Strandfoam  
CN Sumiceller  
CN Sumiceller 3030  
CN Sumiceller 4030  
CN Sumiceller 5050  
CN Sumidic SK 11  
CN Sumikagel GRC-PPM 3  
CN Sumikon FM  
CN Sumilit NS 3450  
CN Sumilit NS 3480UV

CN Sumilit NS 7450  
CN Sumilon MS  
CN Sumilon MS 56150  
CN Sumilon MS 63160G  
CN Sumistran PG 4003  
CN Sumistran PG 5001  
CN Sumitic SK 11A  
CN Sumitic SK 11C  
CN Sumitic SS 30B  
CN Sun Atac  
CN Sun Atac P  
CN Sun-Allomer 933S  
CN Sun-Allomer PB 671A  
CN Sun-Allomer PC 600S  
CN Sun-Allomer PHA 03A  
CN Sun-Allomer PL 300A  
CN Sun-Allomer PL 400A  
CN Sun-Allomer PM 600A  
CN Sun-Allomer PM 802A  
CN Sun-Allomer PM 863V  
CN Sun-Allomer PS 201A  
CN Sun-Allomer PX 400A  
CN Sun-Allomer PX 600A  
CN Sun-Tox CP-KT  
CN Sun-Tox MP-RS 02  
CN Sun-Tox OP-DP 30-20  
CN Sun-Tox OP-DP 30-40  
CN Sun-Tox OP-PA 20W  
CN Sun-Tox OP-PA 30-60  
CN Sun-Tox PA 30  
CN Sun-Tox PF 21-60  
CN Sunlet TT 7030  
CN Sunloid SG  
CN Sunply  
CN Super Purelay  
CN Superchlon E 403  
CN Supersofty  
CN SY 61  
CN SY 6500  
CN Symalit GM 40PP  
CN Synteape  
CN T 022  
CN T 060  
CN T 090  
CN T 101  
CN T 101 (polyolefin)  
CN T 2372  
CN T 2545  
CN T 28C  
CN T 30  
CN T 30 (polyolefin)  
CN T 300PPH-T022-4  
CN T 3054  
CN T 30S1  
CN T 30SPP  
CN T 3401  
CN T 40H550  
CN T 46F  
CN T 46F-M  
CN T 50E  
CN T 523  
CN T-T 300  
CN T-TC  
CN TA 3  
CN TA 3 (polyolefin)  
CN TA 8  
CN TA 899  
CN Taboren PC 51C40  
CN Taboren PH 31C70  
CN TAF 502C  
CN TAF 511  
CN TAF 513

CN Taiko FC  
CN Taiko FC-FHK 2  
CN Taiko FC-FPK  
CN Taiko FL-FHK 2  
CN Taiko FO-FOR-BT  
CN Taiko FOA-BT  
CN Taiko FOR  
CN Takiron P 310  
CN Tatrafan 15  
CN Tatrafan R  
CN Tatren  
CN Tatren 141  
CN Tatren FD 142  
CN Tatren FD 620  
CN Tatren FE 143  
CN Tatren FF  
CN Tatren FF 500  
CN Tatren FF 520  
CN Tatren HPD  
CN Tatren HPF 411  
CN Tatren ME 311  
CN Tatren PD 140  
CN Tatren TE 430  
CN Tatren TE 451  
CN Technopolymer 3119  
CN Tenite 1550  
CN Tenite 423  
CN Tenite 4231  
CN Tenite 4235  
CN Tenite 423DF  
CN Tenite 423S  
CN Tenite 428S  
CN Tenite 4E31  
CN Tenite 4G7DP  
CN Tenite 612F  
CN Tenite 625  
CN Tenite P 4-026  
CN Tenite P 4039  
CN Tenite P 4G3Z039  
CN Tenite P 5-029  
CN Tenite P 7673-079F  
CN Terfilm E  
CN Texture 5378  
CN Texture 5380  
CN Texture 5382  
CN Texture 5382D  
CN Texture-Ultrafine  
CN TF 850H  
CN Thermocomp MFX 1006HS  
CN ThermoStran PP 50G  
CN TI 4007G  
CN Tipplen 535  
CN Tipplen APP-A  
CN Tipplen APP-C  
CN Tipplen H 173  
CN Tipplen H 176F  
CN Tipplen H 263FU  
CN Tipplen H 301  
CN Tipplen H 304  
CN Tipplen H 327  
CN Tipplen H 331  
CN Tipplen H 337  
CN Tipplen H 377  
CN Tipplen H 384F  
CN Tipplen H 431F  
CN Tipplen H 531  
CN Tipplen H 534F  
CN Tipplen H 535  
CN Tipplen H 536  
CN Tipplen H 536F  
CN Tipplen H 543  
CN Tipplen H 543F

CN Tipplen H 601  
CN Tipplen H 723  
CN Tipplen H 791  
CN Tipplen H 791S  
CN Tipplen K 299  
CN Titanpro 6331  
CN Titanpro 6431  
CN Titanpro PM 255  
CN Titanpro PM 383  
CN TK 1180  
CN TK 1330  
CN TM 100K  
CN TM 101  
CN TM 101 (polyolefin)  
CN TM 1600K  
CN Tohcello 500T-T  
CN Tohcello CP  
CN Tohcello CP-GHC  
CN Tohcello CP-PXC 11  
CN Tohcello CP-RXC 11  
CN Tohcello CP-RXC 3  
CN Tohcello CPP-S  
CN Tohcello CPS 30  
CN Tohcello ME 1  
CN Tohcello OP-U 1  
CN Tohcello RXC 7  
CN Tohcello T 300  
CN Tohcello U 2  
CN Tokuso PN 110  
CN Tokuyama Polypro ME 230  
CN Topilene J 700  
CN Torayfan 2445  
CN Torayfan 2535  
CN Torayfan 2545  
CN Torayfan 2575  
CN Torayfan 3429  
CN Torayfan 3501  
CN Torayfan 352  
CN Torayfan 3529T  
CN Torayfan 3931  
CN Torayfan 3X  
CN Torayfan 40-2545  
CN Torayfan 645  
CN Torayfan BO  
CN Torayfan BO 2400  
CN Torayfan BO 2500  
CN Torayfan BO 2535  
CN Torayfan BO 2545  
CN Torayfan BO 2570  
CN Torayfan BO 40  
CN Torayfan BO 40T2745  
CN Torayfan BO 8  
CN Torayfan BO-T 2535  
CN Torayfan BO-YB 22  
CN Torayfan BO-YM 11  
CN Torayfan BO-YT 42  
CN Torayfan BOS 645  
CN Torayfan BOYP  
CN Torayfan F 61W  
CN Torayfan M 114  
CN Torayfan NO  
CN Torayfan NO 2545  
CN Torayfan NO 3401  
CN Torayfan NO 3701T  
CN Torayfan NO 3931  
CN Torayfan NO-ZK 20  
CN Torayfan NO-ZK 93FM  
CN Torayfan NO-ZK 93K  
CN Torayfan ON  
CN Torayfan T 2300  
CN Torayfan T 2362  
CN Torayfan T 2400

CN Torayfan T 2535  
CN Torayfan T 3701  
CN Torayfan YB 22  
CN Torayfan YK 92  
CN Torayfan YL 10  
CN Torayfan YM 11  
CN Torayfan YP 22  
CN Torayfan YR 72  
CN Torayfan YS 42  
CN Torayfan YT 22  
CN Torayfan ZK 93  
CN Toraypef 10020AP66  
CN Toraypef 20030AP66  
CN Toraypef 25020AP66  
CN Toraypef 25030AP66  
CN Toraypef 3004PP  
CN Toraypef AQ 60  
CN Toraypef PP-JP 61  
CN Toraypef PPAM  
CN Toraypef PPAM 20030  
CN Toraypef PPAM 25030  
CN Toraypef PPSM 15030  
CN Toraypef PPX-AW 60-2503  
CN Toyopearl P 4257  
CN Toyopearl P 6035  
CN Toyopearl SS-P 4255  
CN TP 32  
CN TP Licocene PP 1602  
CN TPO-F 3900  
CN TR 165  
CN Transprop OL  
CN Trespaphan  
CN Trespaphan CEA  
CN Trespaphan EPH  
CN Trespaphan FND 15  
CN Trespaphan FND 20  
CN Trespaphan FND 30  
CN Trespaphan GND 20  
CN Trespaphan GND 50  
CN Trespaphan N 12  
CN Trespaphan NNA  
CN Trespaphan NNA 30  
CN Trespaphan SHD  
CN Trespaphan ZSD  
CN Trovidur PP  
CN TS 20020UV  
CN TS 30  
CN TS 30 (polyolefin)  
CN TSOP-GP 5  
CN TSOP-SC 1  
CN TV 059  
CN TVK-K 501  
CN Twintex PP 60  
CN Twintex PP 60-710AB100  
CN Twintex T-PP 60-650C  
CN TX 1088  
CN TX 1170  
CN TX 1180  
CN TX 1498T  
CN TX 1810A  
CN TX 1849  
CN TX 1950  
CN TX 1977X  
CN TX 200-2C  
CN TX 933  
CN TX 933A  
CN TX 970  
CN TY 6500  
CN U 1  
CN U 101  
CN U 101 (polyolefin)  
CN U 101E9

CN U 10P  
CN U 2  
CN U 501E1  
CN U-Pore PF 5500  
CN Ube Polypro FM 101A  
CN UBE Polypro J 109  
CN Ube Polypro J 609  
CN Ube Polypro J 950HK  
CN UBE Polypro ME 230  
CN Ube PP-F 109K  
CN Ube PP-J 109K  
CN Ubetac APAO-UT 2180  
CN Ubetac UR 079  
CN Ubetac UT 2115  
CN Ubetac UT 2180  
CN UC 1057  
CN UCC-WRD 5-1254  
CN Unilax RS 503C  
CN Unilax RS 510C  
CN Unilax RS 512  
CN Unilax RS 512C  
CN Unilax RS 595C  
CN Unipol 5C04Z  
CN Unipoly YK 121  
CN Unistole R 100  
CN UP Polypro FM 101  
CN UP Polypro ME 230  
CN UP Polypro YD 101B  
CN UPP  
CN Uprene 730F  
CN USI 11-4-0047  
CN UT 2104  
CN UT 2115  
CN UT 2180  
CN UV 47-88S  
CN V 30G  
CN V 30S  
CN V 64-19K  
CN V-PP  
CN Valmic  
CN Valtec HL 003  
CN Valtec HS 008  
CN Valtec MH 113Y  
CN VB 19-43D  
CN VB 19-50K  
CN VB 3542  
CN VB 40  
CN VB 40-06C  
CN VB 65-06C  
CN VB 65-11B  
CN VB 6512H  
CN VB 8050B  
CN VB 8052C  
CN VC 12-33B  
CN VC 1235B  
CN VC 15-15P  
CN VC 18  
CN VC 18-12H  
CN VC 2082C  
CN VC 2512H  
CN VC 2535D  
CN VC 3247C  
CN VC 3512H  
CN VC 3535H  
CN VC 37-34B  
CN VC 5076ENA  
CN VD 2001  
CN Veeopro  
CN Verton MFX 70  
CN Verton MFX 700-10  
CN Verton MFX 700-10EM  
CN Verton MFX 700-11HS

CN Verton MFX 700-13EM  
CN Verton MFX 70012  
CN Verton MFX 7006HS  
CN Verton MFX 7008  
CN Vestolen 17M10  
CN Vestolen P  
CN Vestolen P 4000  
CN Vestolen P 5200  
CN Vestolen P 6000  
CN Vestolen P 6000F  
CN Vestolen P 6040  
CN Vestolen P 6200  
CN Vestolen P 7032G  
CN Vestolen P 8400  
CN Vestolen PP 7000  
CN Vestolen PP 7032  
CN Vestolen PP 7052  
CN Vestolen PV 7216  
CN Vestoplast 620  
CN Vestopren P 6200  
CN VHD 40  
CN Vifan BT  
CN Viscol 151P  
CN Viscol 220P  
CN Viscol 330P  
CN Viscol 350P  
CN Viscol 440P  
CN Viscol 500P  
CN Viscol 605P  
CN Vispol 3000  
CN Vistac  
CN Vistac G  
CN Vistac L  
CN Vistalon R  
CN VM 6100H  
CN Volen O  
CN VP 103  
CN VS 6100K  
CN Vumapol E 70  
CN W 101  
CN W 110  
CN W 1H  
CN W 472  
CN W 501  
CN Walothen CM 20  
CN Walothen O 25E  
CN Wax PP 230  
CN WB 060  
CN WB 130  
CN WB 130HMS  
CN WB 617  
CN WC-X  
CN WDHAEC 94  
CN WEX 1242  
CN WF 464N  
CN WF 836DG3  
CN WF 900  
CN White Refstar  
CN WL 111  
CN WL 113  
CN WL 313  
CN WN 1135  
CN WP 100  
CN WP 547  
CN WP 602  
CN WP 708  
CN WRD 5-1057  
CN WRD 5-981  
CN WRS 5-144  
CN WRS 5-579  
CN WRS 5-660  
CN WRS 6-148

CN WRS 7-327  
CN WS 201E  
CN WT 503  
CN WT 6048  
CN WTL  
CN X 10  
CN X 10 (polyolefin)  
CN X 101  
CN X 101 (polyolefin)  
CN X 1780  
CN X 24113-125-10  
CN X 4141  
CN X 440  
CN X 6  
CN X 708  
CN X-IA  
CN XAF 2331  
CN XBPP 133  
CN XBPP 15.2  
CN XBPP 234.0  
CN XBPP 4.0  
CN XF 1391  
CN XF 1810  
CN XF 1893  
CN XF 1932  
CN XF 1935  
CN XF 7553  
CN XF 9239  
CN XF 9246  
CN XFP 1210H  
CN XH 535  
CN XHC 101F  
CN XJ 20001B  
CN XK 0-8044  
CN XK 154  
CN XK 3262  
CN XK 4157V  
CN XM 6170S  
CN XN 3301  
CN XNB 2011  
CN XP 1800  
CN XP 500  
CN XPD 888-34  
CN Y 101  
CN Y 109K  
CN Y 1200  
CN Y 1600  
CN Y 201  
CN Y 203  
CN Y 3000GV  
CN Y 3500  
CN Y 400G  
CN Y 400GP  
CN Y 600  
CN Y 600 (Chinese polymer)  
CN Yanshan 1300  
CN YB 22  
CN YD 50G  
CN YH 11-60  
CN YK 121A  
CN YK 51  
CN YM 11  
CN YM 141  
CN YP 22  
CN YR 12  
CN YT 22  
CN Yukataack B  
CN Yukataack B 3  
CN Yukataack K 4  
CN Yungsox  
CN Yuplene H 380F  
CN Yupo DFG 65

CN Yupo FGS 95  
 CN Yupo FP 80  
 CN Yupo FPG 110  
 CN Yupo FPG 200  
 CN Yupo FPG 80  
 CN Yupo FPG 95  
 CN Yupo FPU 50  
 CN Yupo FPU 60  
 CN Yupo GFG 95  
 CN Yupo GS 80  
 CN Yupo GWG 140  
 CN Yupo SGS 110  
 CN Yupo SGS 60  
 CN Yupo SGS 80  
 CN YX 37F  
 CN Z 101S  
 CN Z 2  
 CN Z 2 (polyolefin)  
 CN Z 800  
 CN ZC 100  
 CN ZK 93FM  
 CN ZK 93K  
 CN ZKP 3  
 CN ZMA 6170P  
 CN ZT 1259  
 CN ZT 772  
 DR 868670-76-2, 457057-49-7, 9044-59-1, 162731-35-3, 171903-39-2,  
 122933-37-3, 53664-32-7, 58318-95-9, 131801-18-8, 123243-04-9, 60440-68-8,  
 132823-57-5, 133757-66-1, 95751-29-4, 104625-25-4, 37329-03-6, 37370-57-3,  
 112024-68-7, 112327-42-1, 112821-10-0, 139465-75-1, 73989-50-1,  
 144855-91-4, 76560-78-6, 148464-77-1, 143710-36-5, 52440-18-3, 52622-64-7,  
 156680-70-5, 169741-70-2, 178535-67-6, 186777-48-0, 220286-70-4,  
 223461-98-1, 262610-59-3, 268745-65-9, 286465-97-2, 301161-99-9,  
 313378-44-8, 313471-92-0, 343259-03-0, 349655-63-6, 368887-79-0,  
 391599-57-8, 399509-34-3, 582300-70-7  
 MF (C3 H6)x  
 CI PMS, COM  
 PCT Polyolefin  
 LC STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ASMDATA\*, BIOSIS,  
 BIOTECHNO, CA, CABA, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMLIST,  
 CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM\*, DIOGENES, DRUGU, EMBASE,  
 ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, HSDB\*, IFICDB, IFIPAT,  
 IFIUDB, IPA, MEDLINE, MRCK\*, MSDS-OHS, NIOSHTIC, PDLCOM\*, PIRA,  
 PLASPEC\*, PROMT, RTECS\*, TOXCENTER, TULSA, ULIDAT, USAN, USPAT2,  
 USPATFULL, VTB  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*\*, TSCA\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)  
 DT.CA Caplus document type: Book; Conference; Dissertation; Journal; Patent;  
 Preprint; Report  
 RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);  
 CMBI (Combinatorial study); FORM (Formation, nonpreparative); MSC  
 (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process);  
 PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role  
 in record)  
 RLD.P Roles for non-specific derivatives from patents: ANST (Analytical  
 study); BIOL (Biological study); MSC (Miscellaneous); OCCU (Occurrence);  
 PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or  
 reagent); USES (Uses); NORL (No role in record)  
 RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological  
 study); CMBI (Combinatorial study); FORM (Formation, nonpreparative);  
 MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC  
 (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses);  
 NORL (No role in record)  
 RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical  
 study); BIOL (Biological study); CMBI (Combinatorial study); FORM  
 (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence);  
 PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or  
 reagent); USES (Uses); NORL (No role in record)

/ Structure 15 in file .gra /

Experimental Properties (EPROP)

PROPERTY (CODE)	VALUE	CONDITION	NOTE
Boiling Point (BP)	220-228 deg C		(1) CAS
Boiling Point (BP)	175-260 deg C		(2) CAS
Boiling Point (BP)	100-120 deg C	Press: 1.5 Torr	(3) CAS
Boiling Point (BP)	85-115 deg C		(4) CAS
Boiling Point (BP)	80-100 deg C		(5) CAS
Boiling Point (BP)	55-235 deg C		(6) CAS
Density (DEN)	9.17 g/cm**3		(7) CAS
Density (DEN)	1.6 g/cm**3		(8) CAS
Density (DEN)	0.94 g/cm**3	Temp: 40 deg C	(9) CAS
Density (DEN)	0.921 g/cm**3		(10) CAS
Density (DEN)	0.92 g/cm**3	Temp: 40 deg C	(9) CAS
Density (DEN)	0.92 g/cm**3		(11) CAS
Density (DEN)	0.92 g/cm**3		(12) CAS
Density (DEN)	0.917 g/cm**3		(13) CAS
Density (DEN)	0.916 g/cm**3	Temp: 23 deg C	(14) CAS
Density (DEN)	0.915-0.940 g/cm**3		(15) CAS
Density (DEN)	0.915 g/cm**3		(16) CAS
Density (DEN)	0.914 g/cm**3	Temp: 20 deg C	(17) CAS
Density (DEN)	0.914 g/cm**3		(18) CAS
Density (DEN)	0.913 g/cm**3	Temp: 145 deg C	(17) CAS
Density (DEN)	0.913 g/cm**3		(19) CAS
Density (DEN)	0.913 g/cm**3		(20) CAS
Density (DEN)	0.912 g/cm**3		(21) CAS
Density (DEN)	0.912 g/cm**3		(22) CAS
Density (DEN)	0.912 g/cm**3		(23) CAS
Density (DEN)	0.911 g/cm**3	Temp: 20 deg C	(17) CAS
Density (DEN)	0.911 g/cm**3	Temp: 50 deg C	(17) CAS
Density (DEN)	0.9103 g/cm**3		(24) CAS
Density (DEN)	0.91 g/cm**3		(25) CAS
Density (DEN)	0.91 g/cm**3		(26) CAS
Density (DEN)	0.910 g/cm**3		(27) CAS
Density (DEN)	0.91 g/cm**3		(28) CAS
Density (DEN)	0.91 g/cm**3		(29) CAS
Density (DEN)	0.91 g/cm**3		(30) CAS
Density (DEN)	0.91 g/cm**3		(31) CAS
Density (DEN)	0.91 g/cm**3		(32) CAS
Density (DEN)	0.91 g/cm**3		(33) CAS
Density (DEN)	0.909 g/cm**3	Temp: 145 deg C	(17) CAS
Density (DEN)	0.909 g/cm**3	Temp: 20 deg C	(17) CAS
Density (DEN)	0.909 g/cm**3		(19) CAS
Density (DEN)	0.9081 g/cm**3		(34) CAS
Density (DEN)	0.908 g/cm**3		(19) CAS
Density (DEN)	0.908 g/cm**3	Temp: 23 deg C	(35) CAS
Density (DEN)	0.907 g/cm**3	Temp: 145 deg C	(17) CAS
Density (DEN)	0.906 g/cm**3	Temp: 230 deg C	(36) CAS
Density (DEN)	0.905-0.915 g/cm**3		(37) CAS
Density (DEN)	0.905 g/cm**3		(38) CAS
Density (DEN)	0.905 g/cm**3		(39) CAS
Density (DEN)	0.905 g/cm**3		(40) CAS
Density (DEN)	0.905 g/cm**3		(41) CAS
Density (DEN)	0.905 g/cm**3		(42) CAS
Density (DEN)	0.905 g/cm**3		(43) CAS
Density (DEN)	0.905 g/cm**3		(44) CAS
Density (DEN)	0.905 g/cm**3		(45) CAS
Density (DEN)	0.904 g/cm**3		(46) CAS
Density (DEN)	0.903 g/cm**3	Temp: 50 deg C	(17) CAS
Density (DEN)	0.903 g/cm**3		(47) CAS
Density (DEN)	0.903 g/cm**3		(48) CAS
Density (DEN)	0.901-0.907 g/cm**3		(49) CAS
Density (DEN)	0.90-0.92 g/cm**3		(50) CAS

Density (DEN)	0.90 g/cm**3	Temp: 40 deg C	(9)	CAS
Density (DEN)	0.90 g/cm**3		(51)	CAS
Density (DEN)	0.9 g/cm**3		(52)	CAS
Density (DEN)	0.900 g/cm**3		(53)	CAS
Density (DEN)	0.900 g/cm**3	Temp: 20 deg C	(54)	CAS
Density (DEN)	0.90 g/cm**3		(55)	CAS
Density (DEN)	0.90 g/cm**3		(56)	CAS
Density (DEN)	0.90 g/cm**3		(57)	CAS
Density (DEN)	0.9 g/cm**3		(58)	CAS
Density (DEN)	0.899 g/cm**3		(59)	CAS
Density (DEN)	0.898 g/cm**3		(60)	CAS
Density (DEN)	0.897 g/cm**3		(61)	CAS
Density (DEN)	0.897 g/cm**3		(62)	CAS
Density (DEN)	0.896 g/cm**3		(63)	CAS
Density (DEN)	0.896 g/cm**3		(64)	CAS
Density (DEN)	0.896 g/cm**3	Temp: 50 deg C	(17)	CAS
Density (DEN)	>0.89 g/cm**3		(65)	CAS
Density (DEN)	0.89 g/cm**3		(25)	CAS
Density (DEN)	0.89 g/cm**3		(66)	CAS
Density (DEN)	0.89 g/cm**3		(67)	CAS
Density (DEN)	0.89 g/cm**3		(68)	CAS
Density (DEN)	0.88 g/cm**3	Temp: 80 deg C	(9)	CAS
Density (DEN)	0.87 g/cm**3	Temp: 40 deg C	(9)	CAS
Density (DEN)	0.87 g/cm**3		(69)	CAS
Density (DEN)	0.86-0.91 g/cm**3		(70)	CAS
Density (DEN)	0.85-0.90 g/cm**3		(71)	CAS
Density (DEN)	0.85 g/cm**3	Temp: 80 deg C	(9)	CAS
Density (DEN)	0.83-0.90 g/cm**3	Temp: 25 deg C	(72)	CAS
Density (DEN)	0.820-0.880 g/cm**3		(73)	CAS
Density (DEN)	0.820-0.840 g/cm**3	Temp: 20 deg C	(74)	CAS
Density (DEN)	0.8060-0.8727 g/cm**3		(75)	CAS
Density (DEN)	0.80 g/cm**3	Temp: 20 deg C	(76)	CAS
Density (DEN)	0.75-0.89 g/cm**3		(76)	CAS
Density (DEN)	0.53 g/cm**3		(77)	CAS
Density (DEN)	0.50 g/cm**3		(78)	CAS
Density (DEN)	0.49 g/cm**3		(79)	CAS
Density (DEN)	0.43 g/cm**3		(80)	CAS
Density (DEN)	0.43 g/cm**3		(81)	CAS
Density (DEN)	0.42 g/cm**3		(82)	CAS
Density (DEN)	0.42 g/cm**3		(80)	CAS
Density (DEN)	0.42 g/cm**3		(81)	CAS
Density (DEN)	0.42 g/cm**3		(83)	CAS
Density (DEN)	0.42 g/cm**3		(84)	CAS
Density (DEN)	0.385 g/cm**3		(85)	CAS
Density (DEN)	0.35 g/cm**3		(86)	CAS
Density (DEN)	0.3 g/cm**3		(87)	CAS
Density (DEN)	0.28 g/cm**3		(88)	CAS
Density (DEN)	0.27 g/cm**3		(88)	CAS
Glass Transition Temperature (TG)	97 deg C		(89)	CAS
Glass Transition Temperature (TG)	28 deg C		(90)	CAS
Glass Transition Temperature (TG)	10.0 deg C		(14)	CAS
Glass Transition Temperature (TG)	10.0 deg C		(91)	CAS
Glass Transition Temperature (TG)	4.8 deg C		(92)	CAS
Glass Transition Temperature (TG)	2 deg C		(93)	CAS
Glass Transition Temperature (TG)	-1.3 deg C		(94)	CAS
Glass Transition Temperature (TG)	-2.2 deg C		(94)	CAS
Glass Transition Temperature (TG)	-3.9 deg C		(94)	CAS
Glass Transition Temperature (TG)	-5.6 deg C		(94)	CAS
Glass Transition Temperature (TG)	-7.2 deg C		(94)	CAS
Glass Transition Temperature (TG)	-8.35 deg C		(95)	CAS

Glass Transition Temperature (TG)	-8.58 deg C	(95)	CAS
Glass Transition Temperature (TG)	-9.37 deg C	(95)	CAS
Glass Transition Temperature (TG)	-9.65 deg C	(95)	CAS
Glass Transition Temperature (TG)	-10 deg C	(94)	CAS
Glass Transition Temperature (TG)	-10.5 deg C	(96)	CAS
Glass Transition Temperature (TG)	-11.1 deg C	(95)	CAS
Glass Transition Temperature (TG)	-12 deg C	(97)	CAS
Glass Transition Temperature (TG)	-12 deg C	(98)	CAS
Glass Transition Temperature (TG)	-13 deg C	(98)	CAS
Glass Transition Temperature (TG)	-14 deg C	(98)	CAS
Glass Transition Temperature (TG)	-14 deg C	(99)	CAS
Glass Transition Temperature (TG)	-14.4 deg C	(94)	CAS
Glass Transition Temperature (TG)	-14.6 deg C	(100)	CAS
Glass Transition Temperature (TG)	-15--3 deg C	(101)	CAS
Glass Transition Temperature (TG)	-15 deg C	(98)	CAS
Glass Transition Temperature (TG)	-16.4 deg C	(94)	CAS
Glass Transition Temperature (TG)	-18 deg C	(98)	CAS
Glass Transition Temperature (TG)	-25-55 deg C	(73)	CAS
Glass Transition Temperature (TG)	-120 deg C	(89)	CAS
Melting Point (MP)	467 deg C	(102)	CAS
Melting Point (MP)	280-335 deg C	(103)	CAS
Melting Point (MP)	183 deg C	(104)	CAS
Melting Point (MP)	183 deg C	(105)	CAS
Melting Point (MP)	180 deg C	(106)	CAS
Melting Point (MP)	175 deg C	(107)	CAS
	(approx)		
Melting Point (MP)	175 deg C	(54)	CAS
Melting Point (MP)	174 deg C	(99)	CAS
Melting Point (MP)	172.5 deg C	(14)	CAS
Melting Point (MP)	171.5 deg C	(14)	CAS
Melting Point (MP)	170 deg C	(108)	CAS
	(approx)		
Melting Point (MP)	170 deg C	(109)	CAS
Melting Point (MP)	170 deg C	(110)	CAS
Melting Point (MP)	170 deg C	(111)	CAS
Melting Point (MP)	169 deg C	(112)	CAS
Melting Point (MP)	168 deg C	(107)	CAS
	(approx)		
Melting Point (MP)	168 deg C	(113)	CAS
Melting Point (MP)	168 deg C	(114)	CAS
Melting Point (MP)	168 deg C	(115)	CAS
Melting Point (MP)	168 deg C	(116)	CAS
Melting Point (MP)	168 deg C	(117)	CAS
Melting Point (MP)	168 deg C	(118)	CAS
Melting Point (MP)	167.5 deg C	(119)	CAS
Melting Point (MP)	167 deg C	(120)	CAS
Melting Point (MP)	167 deg C	(121)	CAS
Melting Point (MP)	167 deg C	(46)	CAS
Melting Point (MP)	166 deg C	(122)	CAS
Melting Point (MP)	165 deg C	(123)	CAS
Melting Point (MP)	165 deg C	(124)	CAS
Melting Point (MP)	165 deg C	(125)	CAS
Melting Point (MP)	165 deg C	(104)	CAS

Melting Point (MP)	164.0 deg C	(126)	CAS
Melting Point (MP)	164 deg C	(40)	CAS
Melting Point (MP)	163.5 deg C	(119)	CAS
Melting Point (MP)	163.5 deg C	(60)	CAS
Melting Point (MP)	163.2 deg C	(127)	CAS
Melting Point (MP)	163 deg C	(39)	CAS
Melting Point (MP)	162.7 deg C	(126)	CAS
Melting Point (MP)	162.0 deg C	(127)	CAS
Melting Point (MP)	162.0 deg C	(128)	CAS
Melting Point (MP)	162.0 deg C	(83)	CAS
Melting Point (MP)	161.7 deg C	(128)	CAS
Melting Point (MP)	161.6 deg C	(129)	CAS
Melting Point (MP)	161.4 deg C	(130)	CAS
Melting Point (MP)	161.3 deg C	(131)	CAS
Melting Point (MP)	161.2 deg C	(132)	CAS
Melting Point (MP)	161 deg C	(133)	CAS
Melting Point (MP)	161.0 deg C	(128)	CAS
Melting Point (MP)	161 deg C	(77)	CAS
Melting Point (MP)	161 deg C	(134)	CAS
Melting Point (MP)	160.3 deg C	(130)	CAS
Melting Point (MP)	160-168 deg C	(135)	CAS
Melting Point (MP)	160 deg C	(133)	CAS
Melting Point (MP)	160 deg C	(136)	CAS
Melting Point (MP)	160 deg C	(119)	CAS
Melting Point (MP)	159.0 deg C	(130)	CAS
Melting Point (MP)	158.7 deg C	(130)	CAS
Melting Point (MP)	158.2 deg C	(130)	CAS
Melting Point (MP)	158-170 deg C	(11)	CAS
Melting Point (MP)	158-164 deg C	(49)	CAS
Melting Point (MP)	158.0 deg C	(130)	CAS
Melting Point (MP)	157.4 deg C	(130)	CAS
Melting Point (MP)	157-162 deg C	(63)	CAS
Melting Point (MP)	157-162 deg C	(64)	CAS
Melting Point (MP)	157 deg C	(137)	CAS
Melting Point (MP)	157 deg C	(133)	CAS
Melting Point (MP)	156 deg C	(137)	CAS
Melting Point (MP)	156 deg C	(133)	CAS
Melting Point (MP)	155-165 deg C	(138)	CAS
Melting Point (MP)	154.9 deg C	(130)	CAS
Melting Point (MP)	154.7 deg C	(130)	CAS
Melting Point (MP)	154 deg C	(133)	CAS
Melting Point (MP)	153.7 deg C	(130)	CAS
Melting Point (MP)	152 deg C	(95)	CAS
Melting Point (MP)	151.6 deg C	(139)	CAS
Melting Point (MP)	151 deg C	(133)	CAS
Melting Point (MP)	150 deg C	(95)	CAS
Melting Point (MP)	149-204 deg C	(70)	CAS
Melting Point (MP)	149 deg C	(95)	CAS
Melting Point (MP)	148.3 deg C	(139)	CAS
Melting Point (MP)	148.1 deg C	(139)	CAS
Melting Point (MP)	148 deg C	(137)	CAS
Melting Point (MP)	147 deg C	(140)	CAS
Melting Point (MP)	147 deg C	(95)	CAS
Melting Point (MP)	146.1 deg C	(127)	CAS
Melting Point (MP)	146.1 deg C	(139)	CAS
Melting Point (MP)	146 deg C	(137)	CAS
Melting Point (MP)	146 deg C	(140)	CAS
Melting Point (MP)	145.9 deg C	(139)	CAS
Melting Point (MP)	145.8 deg C	(127)	CAS
Melting Point (MP)	145 deg C	(137)	CAS
Melting Point (MP)	145 deg C	(141)	CAS
Melting Point (MP)	145 deg C	(140)	CAS
Melting Point (MP)	145 deg C	(95)	CAS
Melting Point (MP)	144 deg C	(137)	CAS
Melting Point (MP)	143 deg C	(137)	CAS
Melting Point (MP)	143 deg C	(141)	CAS
Melting Point (MP)	143 deg C	(140)	CAS
Melting Point (MP)	143 deg C	(94)	CAS
Melting Point (MP)	142.7 deg C	(139)	CAS
Melting Point (MP)	142.3 deg C	(139)	CAS
Melting Point (MP)	142.2 deg C	(142)	CAS
Melting Point (MP)	142 deg C	(137)	CAS

Melting Point (MP)	142 deg C	(140)	CAS
Melting Point (MP)	142 deg C	(94)	CAS
Melting Point (MP)	141.1 deg C	(142)	CAS
Melting Point (MP)	141 deg C	(137)	CAS
Melting Point (MP)	141 deg C	(141)	CAS
Melting Point (MP)	141 deg C	(140)	CAS
Melting Point (MP)	140 deg C	(137)	CAS
Melting Point (MP)	140.0 deg C	(142)	CAS
Melting Point (MP)	140 deg C	(140)	CAS
Melting Point (MP)	139.7 deg C	(9)	CAS
Melting Point (MP)	139 deg C	(137)	CAS
Melting Point (MP)	139 deg C	(140)	CAS
Melting Point (MP)	138.2 deg C	(127)	CAS
Melting Point (MP)	138 deg C	(137)	CAS
Melting Point (MP)	138.0 deg C	(142)	CAS
Melting Point (MP)	137.5 deg C	(142)	CAS
Melting Point (MP)	137.5 deg C	(127)	CAS
Melting Point (MP)	137.4 deg C	(130)	CAS
Melting Point (MP)	137 deg C	(137)	CAS
Melting Point (MP)	137 deg C	(141)	CAS
Melting Point (MP)	137 deg C	(140)	CAS
Melting Point (MP)	136.7 deg C	(130)	CAS
Melting Point (MP)	135.9 deg C	(142)	CAS
Melting Point (MP)	135.5 deg C	(130)	CAS
Melting Point (MP)	135.4 deg C	(130)	CAS
Melting Point (MP)	135.4 deg C	(142)	CAS
Melting Point (MP)	135.1 deg C	(130)	CAS
Melting Point (MP)	135 deg C	(137)	CAS
Melting Point (MP)	135 deg C	(141)	CAS
Melting Point (MP)	135 deg C	(140)	CAS
Melting Point (MP)	134.9 deg C	(9)	CAS
Melting Point (MP)	134.3 deg C	(9)	CAS
Melting Point (MP)	134.2 deg C	(130)	CAS
Melting Point (MP)	134 deg C	(140)	CAS
Melting Point (MP)	133.6 deg C	(142)	CAS
Melting Point (MP)	133 deg C	(143)	CAS
Melting Point (MP)	132.4 deg C	(142)	CAS
Melting Point (MP)	132 deg C	(140)	CAS
Melting Point (MP)	131.7 deg C	(130)	CAS
Melting Point (MP)	131 deg C	(143)	CAS
Melting Point (MP)	131 deg C	(140)	CAS
Melting Point (MP)	130.5 deg C	(130)	CAS
Melting Point (MP)	130-140 deg C	(71)	CAS
Melting Point (MP)	130 deg C	(137)	CAS
Melting Point (MP)	130.0 deg C	(9)	CAS
Melting Point (MP)	129.8 deg C	(130)	CAS
Melting Point (MP)	129.2 deg C	(130)	CAS
Melting Point (MP)	129 deg C	(137)	CAS
Melting Point (MP)	128.7 deg C	(142)	CAS
Melting Point (MP)	128 deg C	(137)	CAS
Melting Point (MP)	128 deg C	(140)	CAS
Melting Point (MP)	127 deg C	(143)	CAS
Melting Point (MP)	127 deg C	(140)	CAS
Melting Point (MP)	125-155 deg C	(144)	CAS
Melting Point (MP)	125-150 deg C	(144)	CAS
Melting Point (MP)	125 deg C	(145)	CAS
Melting Point (MP)	123.4 deg C	(142)	CAS
Melting Point (MP)	123 deg C	(137)	CAS
Melting Point (MP)	121 deg C	(137)	CAS
Melting Point (MP)	120-155 deg C	(144)	CAS
Melting Point (MP)	120-150 deg C	(144)	CAS
Melting Point (MP)	120 deg C	(137)	CAS
Melting Point (MP)	119 deg C	(137)	CAS
Melting Point (MP)	118.1 deg C	(142)	CAS
Melting Point (MP)	116 deg C	(137)	CAS
Melting Point (MP)	115-155 deg C	(144)	CAS
Melting Point (MP)	114 deg C	(137)	CAS
Melting Point (MP)	111 deg C	(137)	CAS
Melting Point (MP)	110-150 deg C	(144)	CAS
Melting Point (MP)	110 deg C	(137)	CAS
Melting Point (MP)	109 deg C	(137)	CAS
Melting Point (MP)	105-170 deg C	(31)	CAS

Melting Point (MP)	105-140 deg C		(144)	CAS
Melting Point (MP)	103 deg C		(137)	CAS
Melting Point (MP)	100-140 deg C		(144)	CAS
Melting Point (MP)	93 deg C		(137)	CAS
Melting Point (MP)	90-125 deg C		(144)	CAS
Melting Point (MP)	90-110 deg C		(144)	CAS
Melting Point (MP)	90-105 deg C		(144)	CAS
Melting Point (MP)	87.0 deg C		(9)	CAS
Melting Point (MP)	85 deg C		(146)	CAS
Melting Point (MP)	84 deg C		(137)	CAS
Melting Point (MP)	83 deg C		(137)	CAS
Melting Point (MP)	81 deg C		(137)	CAS
Melting Point (MP)	81 deg C		(147)	CAS
Melting Point (MP)	80-155 deg C		(144)	CAS
Melting Point (MP)	80 deg C		(137)	CAS
Melting Point (MP)	74 deg C		(137)	CAS
Melting Point (MP)	73.3 deg C		(9)	CAS
Melting Point (MP)	-45 deg C		(74)	CAS
Refractive Index (RI)	1.497	Wavlen: 164600 nm	(148)	CAS
Refractive Index (RI)	1.495	Wavlen: 118834 nm	(148)	CAS
Refractive Index (RI)	1.494	Wavlen: 163034 nm	(148)	CAS
Refractive Index (RI)	1.490	Wavlen: 170576 nm	(148)	CAS
Refractive Index (RI)	1.487	Wavlen: 251140 nm	(148)	CAS
Tensile Strength (TS)	1015 MPa		(131)	CAS
Tensile Strength (TS)	217.18 MPa		(149)	CAS
Tensile Strength (TS)	137.90 MPa		(150)	CAS
Tensile Strength (TS)	99.285 MPa		(151)	CAS
Tensile Strength (TS)	96.72 MPa		(152)	CAS
Tensile Strength (TS)	90.71 MPa		(152)	CAS
Tensile Strength (TS)	90.27 MPa		(152)	CAS
Tensile Strength (TS)	79.93 MPa		(152)	CAS
Tensile Strength (TS)	62.05 MPa		(149)	CAS
Tensile Strength (TS)	48.6 MPa		(153)	CAS
Tensile Strength (TS)	43.6 MPa		(131)	CAS
Tensile Strength (TS)	40.3 MPa		(154)	CAS
Tensile Strength (TS)	38.61 MPa		(155)	CAS
Tensile Strength (TS)	38 MPa	Temp: 25 deg C	(156)	CAS
Tensile Strength (TS)	37.92-48.26 MPa		(157)	CAS
Tensile Strength (TS)	37.92-44.82 MPa		(104)	CAS
Tensile Strength (TS)	37.92 MPa		(155)	CAS
Tensile Strength (TS)	37.8 MPa		(153)	CAS
Tensile Strength (TS)	37 MPa	Temp: 25 deg C	(156)	CAS
Tensile Strength (TS)	36 MPa	Temp: 25 deg C	(156)	CAS
Tensile Strength (TS)	35.51 MPa		(158)	CAS
Tensile Strength (TS)	35.4 MPa		(126)	CAS
Tensile Strength (TS)	35.14 MPa		(158)	CAS
Tensile Strength (TS)	35.03 MPa		(159)	CAS
Tensile Strength (TS)	34.56 MPa		(158)	CAS
Tensile Strength (TS)	34 MPa		(160)	CAS
Tensile Strength (TS)	34 MPa	Temp: 25 deg C	(156)	CAS
Tensile Strength (TS)	33.78 MPa		(155)	CAS
Tensile Strength (TS)	32.96 MPa		(19)	CAS
Tensile Strength (TS)	32.6 MPa		(131)	CAS
Tensile Strength (TS)	31 MPa		(161)	CAS
Tensile Strength (TS)	30.47 MPa		(19)	CAS
Tensile Strength (TS)	30.34 MPa		(162)	CAS
Tensile Strength (TS)	30.27 MPa		(104)	CAS
Tensile Strength (TS)	29.85 MPa		(19)	CAS
Tensile Strength (TS)	28.82 MPa		(159)	CAS
Tensile Strength (TS)	28.2 MPa		(163)	CAS
Tensile Strength (TS)	23.1 MPa		(164)	CAS
Tensile Strength (TS)	11.5 MPa	Temp: 80 deg C	(156)	CAS
Tensile Strength (TS)	11.2 MPa	Temp: 80 deg C	(156)	CAS
Tensile Strength (TS)	11 MPa	Temp: 80 deg C	(156)	CAS
Tensile Strength (TS)	10.8 MPa	Temp: 80 deg C	(156)	CAS
Tensile Strength (TS)	10.5 MPa	Temp: 80 deg C	(156)	CAS
Tensile Strength (TS)	10.1 MPa	Temp: 80 deg C	(156)	CAS
Tensile Strength (TS)	9.28 MPa		(95)	CAS
	(Break)			
Tensile Strength (TS)	7.87 MPa		(95)	CAS
	(Break)			
Tensile Strength (TS)	7.61 MPa		(95)	CAS

Tensile Strength (TS)	(Break) 6.58 MPa		(95)	CAS
Tensile Strength (TS)	(Break) 5.20 MPa		(95)	CAS
Tensile Strength (TS)	(Break) 4 MPa	Temp: 120 deg C	(156)	CAS
Tensile Strength (TS)	3.8 MPa	Temp: 120 deg C	(156)	CAS
Tensile Strength (TS)	3.7 MPa	Temp: 120 deg C	(156)	CAS
Tensile Strength (TS)	3.6 MPa	Temp: 120 deg C	(156)	CAS
Tensile Strength (TS)	3.4 MPa	Temp: 120 deg C	(156)	CAS
Tensile Strength (TS)	2.3 MPa	Temp: 150 deg C	(156)	CAS

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Experimental Property Tags (ETAG)

PROPERTY	NOTE
=====	=====
Adhesive Strength	(1) CAS

1 more tag shown in the MAX or ETAGFULL formats Bending Strength	(2) CAS
3 more tags shown in the MAX or ETAGFULL formats Birefringence	(3) CAS
1 more tag shown in the MAX or ETAGFULL formats Boiling Point	(4) CAS
9 more tags shown in the MAX or ETAGFULL formats Carbon-13 NMR Spectra	(5) CAS
12 more tags shown in the MAX or ETAGFULL formats Cloud Point	(6) CAS
Compressive Strength	(7) CAS
Contact Angle	(1) CAS
6 more tags shown in the MAX or ETAGFULL formats Crystal Structure	(8) CAS
Crystallization Temperature	(9) CAS
8 more tags shown in the MAX or ETAGFULL formats Density	(10) CAS
10 more tags shown in the MAX or ETAGFULL formats Dielectric Constant	(11) CAS
2 more tags shown in the MAX or ETAGFULL formats Dielectric Loss	(12) CAS
Dielectric Strength	(13) CAS
1 more tag shown in the MAX or ETAGFULL formats Diffusion Coefficient	(14) CAS
Ductility	(15) CAS
Electric Conductance and Electric Resistance	(16) CAS
1 more tag shown in the MAX or ETAGFULL formats Elongation at Break	(7) CAS
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Flash Point	(19) CAS
Flexural Modulus	(7) CAS
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Fusion Enthalpy	(22) CAS
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Hardness	(24) CAS
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38 more tags shown in the MAX or ETAGFULL formats IR Emission/Luminescence Spectra	(29) CAS
IR Reflectance Spectra	(30) CAS
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Molecular Weight (Polymers)	(22) CAS
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Particle Size	
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Raman Spectra	(48) CAS
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X-Ray Diffraction Pattern	(59) CAS
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X-Ray Reflectance Spectra	(60) CAS
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X-Ray Spectra	(62) CAS
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Young's Modulus	(32) CAS
9 more tags shown in the MAX or ETAGFULL formats	

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 103756 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

AN 144:99369 CA  
 TI Microwave plasma discharge apparatus with improved discharge efficiency  
 IN Nishimura, Shinobu  
 PA Canon Inc., Japan  
 SO Jpn. Kokai Tokkyo Koho, 11 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 CC 76-11 (Electric Phenomena)  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	JP 2006012963	A2	20060112	JP 2004-184818	20040623
PRAI	JP 2004-184818		20040623		
AB	The invention relates to a microwave plasma discharge app. with an improved discharge efficiency, wherein the dielec. material between the slot antenna and the microwave guide reduces the standing wave ratio.				
ST	plasma discharge app wave guide microwave plasma				
IT	Electric discharge devices				
	Plasma				
	Waveguides				
	(microwave plasma discharge app. with improved discharge efficiency)				
IT	Acetate fibers, uses				
	Fluoropolymers, uses				
	Polyamides, uses				
	Polycarbonates, uses				
	Polyimides, uses				
	Polysiloxanes, uses				
	RL: DEV (Device component use); USES (Uses)				
	(microwave plasma discharge app. with improved discharge efficiency)				
IT	1317-82-4, Sapphire		1344-28-1, Alumina, uses	9002-84-0, Teflon	
	9002-86-2, PVC		9003-07-0, Polypropylene	9003-53-6, Polystyrene	
	24304-00-5, Aluminum nitride				
	RL: DEV (Device component use); USES (Uses)				
	(microwave plasma discharge app. with improved discharge efficiency)				

REFERENCE 2

AN 144:99270 CA  
 TI Precision-sealed electronic devices provided in automotives  
 IN Abe, Ken; So, Isamu  
 PA Furukawa Electric Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 7 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 CC 76-3 (Electric Phenomena)  
 Section cross-reference(s): 38, 39  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	JP 2006012931	A2	20060112	JP 2004-184396	20040623

AB The title sealed device comprises built-in electronic components on a a flexible printed circuit board, a potting elastomer material coated over the components on the circuit board, and a thermoplastic foamed polymer protective layer coated over the components and the potting material on the substrate where heat-ink plate as a heat-releasing plate laminated on the rear side of the substrate may be exposed from the protective layer. The arrangement gives the devices shape precision, thermal insulation to the internal components, and economical manufg.

ST potting elastomer coating electronic device protection flexible circuit board; thermoplastic foamed polymer protective coating electronic device flexible circuit

IT Butyl rubber, properties  
RL: PRP (Properties)  
(coating materials; foamed thermoplastic-protected precision-sealed electronic devices provided in automotives)

IT Potting compositions  
(elastomer; foamed thermoplastic-protected precision-sealed electronic devices provided in automotives)

IT Printed circuit boards  
(flexible; foamed thermoplastic-protected precision-sealed electronic devices provided in automotives)

IT Automobiles  
Electric apparatus  
(foamed thermoplastic-protected precision-sealed electronic devices provided in automotives)

IT Thermal insulators  
(for electronic components; foamed thermoplastic-protected precision-sealed electronic devices provided in automotives)

IT Coating materials  
(potting elastomer and protective polymer; foamed thermoplastic-protected precision-sealed electronic devices provided in automotives)

IT Synthetic rubber, properties  
RL: PRP (Properties)  
(potting materials; foamed thermoplastic-protected precision-sealed electronic devices provided in automotives)

IT Plastics, properties  
RL: PRP (Properties)  
(thermoplastics, foaming; foamed thermoplastic-protected precision-sealed electronic devices provided in automotives)

IT 9010-85-9  
RL: PRP (Properties)  
(butyl rubber, coating materials; foamed thermoplastic-protected precision-sealed electronic devices provided in automotives)

IT 124-38-9, Carbon dioxide, properties  
RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses)  
(polymer foaming gas; foamed thermoplastic-protected precision-sealed electronic devices provided in automotives)

IT 9003-07-0, Polypropylene  
RL: PRP (Properties)  
(thermoplastic CO2-foaming polymer protective layer; foamed thermoplastic-protected precision-sealed electronic devices provided in automotives)

## REFERENCE 3

AN 144:98868 CA  
TI Press connectors provided with water-proofing and impact-resistance  
IN Ide, Takehisa; Terunuma, Ichiro  
PA Fujikura Ltd., Japan  
SO Jpn. Kokai Tokkyo Koho, 22 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese  
CC 76-2 (Electric Phenomena)  
Section cross-reference(s): 38, 39

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2006012744	A2	20060112	JP 2004-192234	20040629

PRAI JP 2004-192234 20040629

AB The title press connector comprises a polar polymer connector housing, a

retainer, and a press contact terminal, wherein the cable support for the retainer supports has non-polar polymer insulator coated flat cable to be supported in parallel to the perpendicular plane to the connecting direction. The polymer mold for sealing the press connection port provided between the wire and the connector is a hot melt polymer compn. contg. maleic acid-reformed polyolefin and C9 hydrogenated petroleum resins, amorphous polyolefins, and ethylene-propylene-styrene copolymer rubber.

- ST sealing mold
- IT Electric insulators  
(coating layer; press connectors provided with water-proofing and impact-resistance)
- IT Electric insulators  
(coatings; press connectors provided with water-proofing and impact-resistance)
- IT Synthetic rubber, properties  
RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses)  
(ethylene-propylene-styrene copolymer sealing mixt.; press connectors provided with water-proofing and impact-resistance)
- IT Isoprene-styrene rubber  
RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses)  
(hydrogenated, block, triblock, styrene-ethylene-propylene rubber; press connectors provided with water-proofing and impact-resistance)
- IT Petroleum resins  
RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses)  
(hydrogenated, sealing mixt.; press connectors provided with water-proofing and impact-resistance)
- IT Polyolefins  
RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses)  
(maleic acid-reformed and amorphous, sealing mixt.; press connectors provided with water-proofing and impact-resistance)
- IT Sealing  
(polymer mold; press connectors provided with water-proofing and impact-resistance)
- IT Molds (forms)  
(polymer, for sealing; press connectors provided with water-proofing and impact-resistance)
- IT Water-resistant materials  
(press connectors provided with water-proofing and impact-resistance)
- IT Interconnections, electric  
(press; press connectors provided with water-proofing and impact-resistance)
- IT 110-16-7D, Maleic acid, polymers with polypropylene 9003-07-0D, Polypropylene, polymers with maleic acid  
RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses)  
(Polybond, insulator compn.; press connectors provided with water-proofing and impact-resistance)
- IT 25895-47-0, Vestoplast 828  
RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses)  
(amorphous polypropylene, insulator compn.; press connectors provided with water-proofing and impact-resistance)
- IT 700836-36-8D, hydrogenated, block, triblock  
RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses)  
(isoprene-styrene rubber, styrene-ethylene-propylene rubber; press connectors provided with water-proofing and impact-resistance)
- IT 827311-00-2, Auroren 150S  
RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses)  
(maleic acid-reformed polyethylene, insulator compn.; press connectors provided with water-proofing and impact-resistance)
- IT 110-16-7, Maleic acid, properties  
RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses)  
(reforming agent, for polyolefins, sealing mixt.; press connectors provided with water-proofing and impact-resistance)
- IT 25608-79-1, Ethylene-propylene-styrene copolymer  
RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses)  
(rubber, coating mixt.; press connectors provided with water-proofing and impact-resistance)

#### REFERENCE 4

- AN 144:98171 CA
- TI Polymers in electronics: plastics applications expand, keeping pace with

industry needs  
AU Stewart, Richard  
CS USA  
SO Plastics Engineering (Brookfield, CT, United States) (2005), 61(8), 18-26  
CODEN: PLEGBB; ISSN: 0091-9578  
PB Society of Plastics Engineers  
DT Journal; General Review  
LA English  
CC 76-0 (Electric Phenomena)  
AB A review, with no refs. Engineering thermoplastics and other high-performance polymers play an increasingly vital role in the prodn. of electronic components and microelectronic devices. New resins, additives, and fillers have been developed to meet thin wall and high temp. requirements for molded parts, while innovative uses of conductive polymers are expanding the role of plastics in electronics even further.  
ST review electronics application thermoplastic polymers antenna; printed circuit board microelectronic device conducting polymer review; polyurethane polyamide fluoropolymer polyimide plastic electronics review  
IT Antennas  
Conducting polymers  
Electronic packaging process  
Liquid crystals, polymeric  
Microelectronic devices  
Nanotubes  
Printed circuit boards  
Semiconductor devices  
(expansion of plastics application in electronics industry)  
IT Fluoropolymers, uses  
Plastics, uses  
Polyamide fibers, uses  
Polyamides, uses  
Polymers, uses  
Polyurethanes, uses  
Synthetic rubber, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(expansion of plastics application in electronics industry)  
IT Polyimides, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(polyether-; expansion of plastics application in electronics industry)  
IT Polyethers, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(polyimide-; expansion of plastics application in electronics industry)  
IT Plastics, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(thermoplastics; expansion of plastics application in electronics industry)  
IT 9003-07-0, Polypropylene  
RL: TEM (Technical or engineered material use); USES (Uses)  
(expansion of plastics application in electronics industry)

# REFERENCE 5

AN 144:97659 CA  
TI Electrophotographic toner containing color toner and transparent toner, and multicolor image formation  
IN Mori, Yukihiro; Miyatake, Takamori  
PA Kyocera Mita Industrial Co., Ltd., Japan  
SO Jpn. Kokai Tokkyo Koho, 18 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese  
CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2006011218	A2	20060112	JP 2004-191043	20040629
PRAI	JP 2004-191043		20040629		

AB The toner, for multicolor image formation, comprises (A) color toners free from wax and (B) transparent toner contg. wax for the outermost layer formation. Multicolor image is formed by the A, B layer is formed thereon, and fixed with roller. Clear multicolor image without offset is

obtained even on oil-less fixing system.

ST electrophotog color toner wax free; transparent toner wax electrophotog

IT Electrophotographic toners  
(multicolor electrophotog. toner comprising color toner free from wax and transparent toner contg. wax)

IT Polyoxyalkylenes, preparation  
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(polyester-, transparent toner binder; multicolor electrophotog. toner comprising color toner free from wax and transparent toner contg. wax)

IT Polyesters, preparation  
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(polyoxyalkylene-, transparent toner binder; multicolor electrophotog. toner comprising color toner free from wax and transparent toner contg. wax)

IT 95890-94-1P, Divinylbenzene-2-ethylhexyl methacrylate-styrene copolymer  
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(color toner binder; multicolor electrophotog. toner comprising color toner free from wax and transparent toner contg. wax)

IT 96360-62-2P, Polyoxyethylene(2.2)-2,2-bis(4-hydroxyphenyl)propane-polyoxypropylene(2.2)-2,2-bis(4-hydroxyphenyl)propane-terephthalic acid-trimellitic anhydride copolymer  
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(transparent toner binder; multicolor electrophotog. toner comprising color toner free from wax and transparent toner contg. wax)

IT 9003-07-0D, Polypropylene, derivs. 202484-10-4, Youmex 100TS  
RL: TEM (Technical or engineered material use); USES (Uses)  
(wax; multicolor electrophotog. toner comprising color toner free from wax and transparent toner contg. wax)

#### REFERENCE 6

AN 144:97639 CA

TI Magnetic toner and conductive developer compositions

IN Grande, Michael L.; Hollenbaugh, William H.

PA Xerox Corporation, USA

SO U.S. Pat. Appl. Publ., 6 pp.  
CODEN: USXXCO

DT Patent

LA English

NCL 430106200

CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2006003244	A1	20060105	US 2004-879117	20040630
PRAI	US 2004-879117		20040630		

AB Magnetic toner compns., conductive developer compns., and methods for producing images in a hybrid jumping development system, more specifically, in a magnetic ink character recognition system, are disclosed. The developer compns. contain coated magnetic toner particles and coated carrier particles. The toner compns. include a resin, colorant, wax, magnetic component, and surface additives of coated silica, titania, and zinc stearate.

ST electrophotog toner magnetic conductive developer

IT Carbon black, uses  
Polyanilines  
RL: TEM (Technical or engineered material use); USES (Uses)  
(coating for carrier particles; magnetic toner and conductive developer compns.)

IT Polysiloxanes, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(coating for silica particles; magnetic toner and conductive developer compns.)

IT Polyesters, uses  
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)  
(crosslinked; magnetic toner and conductive developer compns.)

IT Electrophotographic developers  
(magnetic toner and conductive developer compns.)

IT Electrophotographic developers  
(magnetic toners; magnetic toner and conductive developer compns.)

IT 25233-30-1, Polyaniline 30604-81-0, Polypyrrole  
RL: TEM (Technical or engineered material use); USES (Uses)  
(coating for carrier particles; magnetic toner and conductive developer compns.)

IT 3069-40-7, Octyltrimethoxysilane 9016-00-6, Dimethylsilanediol homopolymer, sru 31900-57-9, Dimethylsilanediol homopolymer  
RL: TEM (Technical or engineered material use); USES (Uses)  
(coating for silica particles; magnetic toner and conductive developer compns.)

IT 5575-48-4, Decyltrimethoxysilane  
RL: TEM (Technical or engineered material use); USES (Uses)  
(coating for titania particles; magnetic toner and conductive developer compns.)

IT 12597-69-2, Steel, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(core of carrier particles; magnetic toner and conductive developer compns.)

IT 557-05-1, Zinc stearate 1309-38-2, Magnetite, uses 7631-86-9, Silica, uses 9002-88-4 13463-67-7, Titania, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(magnetic toner and conductive developer compns.)

IT 26061-90-5, Ethylene-glycidyl methacrylate copolymer  
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)  
(wax compatibilizer; magnetic toner and conductive developer compns.)

IT 9003-07-0, Polypropylene  
RL: TEM (Technical or engineered material use); USES (Uses)  
(wax; magnetic toner and conductive developer compns.)

#### REFERENCE 7

AN 144:97486 CA

TI Reflective surface materials having specific 3D patterns and automobile interior parts therewith

IN Shibukawa, Akiya; Harada, Hiroaki; Nagayama, Hiroki

PA Nissan Motor Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 36 pp.  
CODEN: JKXXAF

DT Patent

LA Japanese

CC 73-12 (Optical, Electron, and Mass Spectroscopy and Other Related Properties)  
Section cross-reference(s): 38

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2006011177	A2	20060112	JP 2004-190338	20040628
PRAI	JP 2004-190338		20040628		

AB The materials, attached to such parts as car instrument panels, door trims, and/or rear parcel shelves to suppress them from getting hot under sun beams, form 3D patterns made up with units having depressed cross-section and being arranged on substrates so that their reflective (e.g., metalized) and absorptive side oriented unidirectionally for each. The substrates may comprise PVC, thermoplastic polyolefins, acrylic resins, PP, or polyesters. The materials may be planarized on surface with transparent materials to have flat surface.

ST three dimensionally patterned reflector automobile interior; aluminum deposited polyolefin reflective unit light reflector; summertime temp elevation prevention vehicle interior reflector

IT Optical reflectors  
(3D-patterned reflective surface materials for car interior parts suppressing temp. elevation)

IT Doors  
(automotive, door trims; 3D-patterned reflective surface materials for car interior parts suppressing temp. elevation)

IT Automobiles  
(interior parts, instrument panels, rear parcel shelves; 3D-patterned reflective surface materials for car interior parts suppressing temp.

elevation)  
 IT Acrylic polymers, uses  
 Polyesters, uses  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (substrates; 3D-patterned reflective surface materials for car interior  
 parts suppressing temp. elevation)  
 IT Polyolefins  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (thermoplastic, substrates; 3D-patterned reflective surface materials  
 for car interior parts suppressing temp. elevation)  
 IT 9002-86-2, Vinyl chloride resin 9003-07-0, Polypropylene  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (substrates; 3D-patterned reflective surface materials for car interior  
 parts suppressing temp. elevation)

# REFERENCE 8

AN 144:94510 CA  
 TI Pharmaceutical containers with low adsorption/absorption of drugs  
 IN Baker, David Stephen; Bandyopadhyay, Paramita; Pesheck, Carolyn Verna;  
 Singh, Satish Kumar; Thompson, Brian Edward  
 PA Pharmacia & Upjohn Company, USA  
 SO U.S. Pat. Appl. Publ., 11 pp.  
 CODEN: USXXCO  
 DT Patent  
 LA English  
 IC ICM B65D001-00  
 NCL 428036600  
 CC 63-8 (Pharmaceuticals)  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	US 2005287325	A1	20051229	US 2004-877155	20040625
PRAI	US 2004-877155	20040625			

AB The present invention relates to a container comprising, 1 or more  
 polyolefins exhibiting <20% sorption of drugs as detd. by a suitably  
 acceptable method; and a compn. comprising these drugs. The invention  
 also provides a method of detg. whether a package material will provide a  
 desired stability of an active ingredient of a pharmaceutical compn.; a  
 method of maintaining the concn. of a drug in the dosage form, upon  
 storage in a container; and a method of manufg. a storage container.  
 Packages for prostaglandin compns. were prepd. by using the materials,  
 e.g., Atofina 3020 PP.  
 ST pharmaceutical container adsorption absorption; polyolefin container  
 adsorption absorption pharmaceutical  
 IT Drug delivery systems  
 (ophthalmic; pharmaceutical containers with low adsorption/absorption  
 of drugs)  
 IT Adsorption  
 Bottles  
 Containers  
 Drug delivery systems  
 Flexural modulus  
 Glaucoma (disease)  
 Packaging materials  
 Sorption  
 Stability  
 Surface area  
 (pharmaceutical containers with low adsorption/absorption of drugs)  
 IT Polymer blends  
 Polyolefins  
 RL: DEV (Device component use); THU (Therapeutic use); BIOL (Biological  
 study); USES (Uses)  
 (pharmaceutical containers with low adsorption/absorption of drugs)  
 IT Prostaglandins  
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (pharmaceutical containers with low adsorption/absorption of drugs)  
 IT 25213-02-9, Marlex HHM 5502  
 RL: DEV (Device component use); THU (Therapeutic use); BIOL (Biological  
 study); USES (Uses)  
 (HDPE; pharmaceutical containers with low adsorption/absorption of  
 drugs)

IT 9002-88-4, Du Pont 20  
 RL: DEV (Device component use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (LDPE; pharmaceutical containers with low adsorption/absorption of drugs)

IT 9010-79-1, Appryl 3020  
 RL: DEV (Device component use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (Z 9450; pharmaceutical containers with low adsorption/absorption of drugs)

IT 9003-07-0, Appryl 3030 872130-33-1, Appryl 6253  
 RL: DEV (Device component use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (pharmaceutical containers with low adsorption/absorption of drugs)

IT 38315-48-9D, 16-Phenyl-17,18,19,20-tetranorprostaglandin F2.alpha., derivs. 38344-08-0D, 17-Phenyl-18,19,20-trinorprostaglandin F2.alpha., derivs. 41639-83-2D, derivs. 51705-19-2D, 16-Phenoxy-17,18,19,20-tetranorprostaglandin F2.alpha., derivs. 120373-24-2, Isopropyl Unoprostone 130209-82-4, Latanoprost 157283-68-6, Travoprost 872130-34-2, Appryl 7231X 872130-47-7, Appryl 8473  
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (pharmaceutical containers with low adsorption/absorption of drugs)

REFERENCE 9

AN 144:94496 CA  
 TI Drug packaging papers having heat-sealed portions  
 IN Ishii, Hiroshi  
 PA Elquest Corp., Japan  
 SO Jpn. Kokai Tokkyo Koho, 6 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 CC 63-7 (Pharmaceuticals)  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2006006377	A2	20060112	JP 2004-183644	20040622
PRAI	JP 2004-183644	20040622			

AB The invention relates to a medicine paper for packaging prescription drugs, consisting of a folded polypropylene sheet having vertical heat-welded portions for dividing spaces to make pouches, and horizontal heat-welded portions for sealing the openings of the pouches after filling drugs therein, wherein the horizontal heat-welding portion has pores which induce shear to the longitudinal direction, so that the pouches are easily opened.

ST polypropylene sheet heat sealed drug packaging material  
 IT Medical goods  
 Packaging materials  
 (drug packaging papers having heat-sealed portions)

IT Drug delivery systems  
 (oral; drug packaging papers having heat-sealed portions)

IT 9002-88-4, Polyethylene 9003-07-0, Polypropylene  
 RL: DEV (Device component use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (drug packaging papers having heat-sealed portions)

REFERENCE 10

AN 144:94489 CA  
 TI Absorbent cotton covered with net-shaped synthetic resin films, and its manufacture  
 IN Iwamoto, Masataka  
 PA Kakui Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 10 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 CC 63-7 (Pharmaceuticals)  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI JP 2006006637 A2 20060112 JP 2004-188244 20040625  
 PRAI JP 2004-188244 20040625  
 AB A rolled absorbent cotton sheet is cut into pieces having rectangular shape, the cut pieces are placed at a fixed interval, covered with net-shaped synthetic resin films from both sides, and the films are heat-sealed at film ends to give absorbent cotton covered all over the surface with the net-shaped synthetic resin films. The covering prevents loosening of the absorbent cotton before use in surgery. Absorbent cotton covered with polyethylene films was manufd. in a fully automated process.  
 ST absorbent cotton covering plastic film net; medical absorbent cotton polyethylene film net  
 IT Cotton fibers  
 (absorbent; manuf. of medical absorbent cotton covered with net-shaped synthetic resin films)  
 IT Medical goods  
 (absorbents; manuf. of medical absorbent cotton covered with net-shaped synthetic resin films)  
 IT Packaging materials  
 (films, heat-sealable; manuf. of medical absorbent cotton covered with net-shaped synthetic resin films)  
 IT Absorbents  
 (medical; manuf. of medical absorbent cotton covered with net-shaped synthetic resin films)  
 IT Plastic films  
 (net-shaped; manuf. of medical absorbent cotton covered with net-shaped synthetic resin films)  
 IT Nets  
 (plastic film; manuf. of medical absorbent cotton covered with net-shaped synthetic resin films)  
 IT 9002-88-4, Polyethylene 9003-07-0, Polypropylene  
 RL: DEV (Device component use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (manuf. of medical absorbent cotton covered with net-shaped synthetic resin films)

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     1075 UN  
     2451 UNS  
     3525 UN  
         (UN OR UNS)  
     3258 1100  
 L4      0 ARTRESIN UN-1100  
         (ARTRESIN(W) UN(W) 1100)

=> s artresin un-9000  
     0 ARTRESIN  
     1075 UN  
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     274 9000  
 L5      0 ARTRESIN UN-9000  
         (ARTRESIN(W) UN(W) 9000)

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     3258 1100  
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FILE 'REGISTRY' ENTERED AT 15:28:19 ON 31 JAN 2006  
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 L2      0 S MH-7210  
 L3      3 S SD-101  
 L4      0 S ARTRESIN UN-1100

L5 0 S ARTRESIN UN-9000  
L6 0 S ALLONIX M-1100

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COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
121.45	121.66

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-6.39	-6.39

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STN INTERNATIONAL LOGOFF AT 15:32:27 ON 31 JAN 2006